Electric mobility on the water

US 2019
For more than a decade, Torqeedo has led the way in electric mobility on the water. No other company is as trusted as Torqeedo as we build the future of marine mobility.

We are grateful for our boat builder and retail partners who have embraced Torqeedo’s mission. But, most importantly, we are grateful for the boaters and commercial operators who have chosen to join us in advancing sustainable mobility on the water.

Creating products for cleaner, safer, easier and more sustainable electric boating remains our bedrock. This is how we implemented our mission in 2019.

Our Deep Blue product line offers the most powerful electric motor systems from industrial R&D and production. Up until now, 50 kW was the maximum power available from a single Deep Blue motor. Twin installations could deliver a system power of up to 100 kW.

In 2019, we will launch our new Deep Blue 100 kW motors. Twin installations can now provide up to 200 kW of power in a fully integrated drive system. The motors are available in two versions: a low-rpm version for displacement boats and a high-rpm version for planing boats (pages 47 and 52).

In 2017, Torqeedo adapted lithium batteries from BMW’s electric cars for the marine market. Only two years later, we are launching an upgraded, higher-capacity battery: the new Deep Blue 40 kWh battery. It features 31% more capacity in the same footprint and an energy density of more than 144 Wh per kg (page 58).

33% increase in energy and energy density will also extend to our 24 V batteries. Based on the new capacity, the 24 V battery has been given a new name: Power 24-3500, also featuring an impressive energy density of 138 Wh per kg (page 40).

Torqeedo’s Travel motors have changed the way boaters power their tenders and sailing dinghies. Small combustion engines once dominated marinas, but electric motors are now commonplace. In 2019, we will add the new Travel 1103 C to the range.

The Travel 1103 C is the quietest motor in its class, due to a gearless direct drive and silence-focused engineering. It also features optimized throttle characteristics for improved control and enhanced mechanical robustness (page 24).

In the growing sport of kayak fishing, our Ultralight models deliver industry-leading power, range, lightness and intelligence. 2019’s Ultralight 403 A features a new mount that makes installation easier and provides more functions for control and transport. Motorized, hands-free kayak fishing is now even more convenient.

By delivering more power, more energy, more silence and more convenience, Torqeedo honors our commitment to improving customers’ boating experiences and advancing marine electric mobility every year.

Welcome to clean boating.
Ultralight 403 A
A new mounting system simplifies installation of the Ultralight 403 A on most fishing kayaks and makes storing, stowing and using the motor even easier.

Travel 1103 C
The ultra-quiet new Travel motor generates just 33 dB while in use and offers 1,100 W of motor power with a stronger, more durable design.

Cruise 10.0 T
The flagship outboard in the Cruise model line will soon be available as a tiller model. The Cruise 10.0 T is a 20 HP equivalent, best matched with our Power 48-5000 batteries.

Fast charger 2,900 W for Power 48-5000 battery
Specifically developed for fast charging the Power 48-5000, this 2,900 W charger can fully charge a single battery in just under two hours.
Deep Blue 100i 900/2400

Two brand-new 100 kW motors extend the applications of Deep Blue. This gearless, direct-drive design comes in two rpm variants: one for fast, planing boats and one for larger, heavier vessels.

Power 24-3500 battery

The 24 V Power battery will get a technical update and a capacity increase in 2019, boosting power up to 3,500 Wh with a minimal weight of just 56 lbs.

40 kWh Deep Blue battery (i3-type)

High-capacity batteries with technology by BMW will deliver more range and even longer runtimes in 2019, with 31% more capacity in the same footprint.

Deep Blue 100i 900/2400

Two brand-new 100 kW motors extend the applications of Deep Blue. This gearless, direct-drive design comes in two rpm variants: one for fast, planing boats and one for larger, heavier vessels.
Contents

8 **Sustainability:**
Electric mobility conserves resources and helps the environment

10 **New mobility:**
Connectivity and digitalization are transforming mobility on water

12 **Superior performance:**
Electric boat motors have a multitude of benefits to offer

14 **Advanced engineering:**
The reasons why Torqeedo develops better products

16 **Ultralight**
An ingenious new mount makes the Torqeedo Ultralight motors the first choice for kayak fishing.

22 **Travel**
Ultra-quiet, more powerful and more robust – the new Travel 1103 C raises the bar for tenders or sailboats up to 1.5 tons.

28 **Cruise outboards**
More powerful batteries give the Cruise motors an energy boost. The Cruise 10.0 with tiller is a new addition to the model line-up.
32 Cruise Pod motors
Sailboats up to 10 tons can benefit from the quiet and eco-friendly Cruise motors.

38 Cruise batteries
The new Power 24-3500 is the ultimate 24V power supply for Cruise 2.0 motors or house loads. Power 48-5000 supplies Cruise 4.0 or 10.0 and all 48V onboard needs.

42 Deep Blue
With highly advanced batteries and more powerful motors, this perfectly integrated system is winning over yacht owners and commercial operators.

58 Deep Blue batteries
With a capacity upgrade to 40 kWh, the new Deep Blue battery (i3-type) from BMW delivers impressive performance.
Turn the tide
Switching makes a difference. Electric boats are cleaner, for you and for the planet

Better for the water
Electric boats cause no water pollution because they don’t discharge their exhaust underwater like combustion engines and there is no chance of fuel or oil spilling on the boat or fouling the water. No blue smoke – no haze of unburnt fuel and oil forming on the water’s surface. When you boat electric, all you leave behind are great memories with family and friends.

Better for the air
Until recently, little attention has been paid to the air pollution caused by combustion outboards on boats. As a result, marine outboards include very little technology for filtering out and reducing pollutants. For example, even a new 80 HP, four-stroke gasoline outboard emits a vast amount of nitrogen oxides and hydrocarbon pollution. If you drive an 80 HP boat for one hour, it’s like driving 350 new cars at highway speed for the same amount of time. Running a 5 HP dinghy motor for an hour emits nitrogen oxides and hydrocarbons equivalent to driving 38 cars. Nitrogen oxides and hydrocarbons are poisonous, carcinogenic and contribute to the formation of ozone and acid rain. If you can avoid these high levels of emissions by switching to a clean electric motor – then why wouldn’t you?

Better for nature and the climate
Even with today’s energy mix, in almost all cases, electric boats have a significantly lower climate impact than combustion powered boats. When charged via solar or other renewables, the math gets even better.

Boaters are keen to preserve nature and enjoy clean air and unpolluted water – for today’s enjoyment and tomorrow’s generations. Torqeedo creates the products for the transition to sustainable boating. It’s what we’ve been doing all along.
Boating, better

More energy onboard
With increased battery capacity, everything from the water maker to the tender can be powered by electric, further reducing climate impacts.

Peace and quiet
Electric motors are quieter and cause less vibration on board than a typical combustion engine.

Healthier air and climate
Electric motors don’t emit toxic substances and typically have a lower carbon footprint due to their superior efficiency and lightweight design.

Zero pollution
Even a drop of spilled fuel can contaminate thousands of gallons of water. Electric drives eliminate the oily film that forms where combustion engines are used and don’t vent their exhaust under water.

Convenient charging
Charging is quick and easy - most marinas are already equipped with shore power connections.

Abundant green power
Solar panels can help keep batteries charged and some electric motors can charge their own batteries - the spinning prop acts as a hydrogenerator and supplies free, clean energy while the boat is under sail.

More energy onboard
With increased battery capacity, everything from the water maker to the tender can be powered by electric, further reducing climate impacts.
New mobility

Digitalization, electrification and autonomous vehicles are changing how we get around, and Torqeedo is bringing new mobility onto the water

Moving smarter

Life is movement. We are constantly on the go – traveling to work, meeting friends, making business trips around the world or sailing for leisure. But how we move people and products and with that our entire mobility culture, is changing – and that is a good thing.

People used to travel from A to B on foot or by car, bike or train. Today, we navigate the ever-more-complex urban infrastructure with our smartphones, changing from rent-a-bike to Uber pool to subway travel in an instant. Digitalization and connectivity are driving a mobility revolution not seen since the advent of combustion engines.

Freight transport is also reaping the benefits of intelligent connectivity and new digital products – for example, by accurately determining free transport capacities and automatically allocating them to suitable cargoes, thus avoiding empty runs. Making mobility cleaner and more efficient saves time, money and reduces our climate impact.

E-mobility on the water

These new, smart and interconnected mobility services are now extending onto the water. Many old canals and rivers that had been covered by concrete for decades are being reopened and integrated into the public transport network in order to ease the burden on road and rail infrastructure.

In the Chinese city of Suzhou, a fleet of nearly 200 working boats is operating with Torqeedo electric motors to remove rubbish and prevent plastic pollution from reaching the ocean. Electric ferries and catamarans are covering roofs and sunlit surfaces with solar panels to generate energy and reduce pollution, or even go completely emission-free. Electric ferries are contributing to cleaner air in metropolitan areas and lowering the carbon footprint of on-water transport.

A new operating system

The mobility revolution goes beyond exchanging motors; the whole operational system is being reprogrammed. Amsterdam is the first large city to start trials of autonomous transport boats for goods distribution. Engineers are currently live-testing a Torqeedo-powered autonomous electric ferry for crossing a canal in Trondheim, Norway. Soon we will see autonomous ferries or water taxis on urban canals or rivers that will be ordered by smartphone. As 21st-century technology shouldn’t be powered by 20th-century engines, electric motors are the propulsion technology of choice for this new application field.

Smart, connected electric mobility means the world’s great cities can improve air and water quality, protect the climate and simultaneously improve their citizens’ quality of life. We’re proud to be part of this global transformation.
Charging station
Car sharing
Office
Smart home
Airport
Train station
Restaurant
Charging station
Superior efficiency and performance
Our focus on optimizing propulsive power and overall efficiency

Measuring power and performance

The most meaningful performance indicator of a drive system is propulsive power, which indicates the power delivered by the motor to drive the boat, taking all losses, including propeller losses, into account. This method has been used in commercial shipbuilding for nearly 100 years.

Manufacturers of combustion engines often advertise less informative measurements, such as the shaft power, input power or even the static thrust. That wouldn’t be so bad if the differences between power ratings were minimal, but that isn’t the case: a gasoline outboard with an advertised shaft power of 5 HP actually provides a mere 1.4 HP of propulsive power.

The efficiency advantage

Torqeedo efficiency ratings not only refer to motor efficiency, but also disclose losses in motor, electronics, cables, gears and propellers. Due to our focus on optimizing the entire system, Torqeedo motors deliver the highest overall efficiency on the market. When combustion engines burn gasoline or diesel, they primarily use the stored energy to produce heat; 5-15% of the supplied energy is used to propel the boat and the rest is lost due to inefficiencies. A Torqeedo drive converts between 44 and 56% of the available energy into propulsive power, extending range and runtime (graph p. 15).

A Travel motor can propel a light boat more than 10 nautical miles and only consume the equivalent of 8 teaspoons of gasoline.

Horsepower equivalent

Electric motors can achieve the same propulsive power as combustion engines with significantly lower shaft power because of the different torque curves they produce. Electric motors deliver ample torque, which is available at any rotational speed. This characteristic allows them to turn large, efficient, high-pitch propellers that would cause an equivalent combustion engine to stall at startup. At Torqeedo, we always compare the actual propulsive power of our motors versus combustion engines. A Torqeedo motor specified as a “5 HP equivalent” provides the same power as a 5 HP combustion engine, even though its shaft and input power may be lower.

<table>
<thead>
<tr>
<th>Torqeedo Cruise 2.0</th>
<th>Conventional electric outboard</th>
<th>Combustion outboard 5 HP</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,000 W (2.7 HP)</td>
<td>2,000 W (2.7 HP)</td>
<td>3,700 W (5 HP)</td>
</tr>
<tr>
<td>1,120 W (1.5 HP)</td>
<td>660 W (0.9 HP)</td>
<td>995 W (1.4 HP)</td>
</tr>
<tr>
<td>5 HP equivalent</td>
<td></td>
<td></td>
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</table>
Charging and handling are easy

An electric drive may simplify your onboard routines. Although charging batteries takes time, Torqeedo owners appreciate the simplicity of just plugging in at the end of the day – no finding a fuel station or carrying cans of fuel down the dock. Owners of Travel or Ultralight systems can charge on board via 12 V supply or the Sunfold 50 solar panel, or bring the lightweight, portable lithium battery home to charge with the included charger. Cruise and Deep Blue-powered boats plug in to shore power and charge overnight. Need a faster turnaround? The high-capacity batteries from these systems can also be equipped with fast chargers or multiple chargers.

Lightweight electric motors are also very easy to handle and store. Our best-selling Travel motors for dinghies, tenders and small sailboats start at just 30.6 lbs including the battery. Motor, battery and tiller also come apart so one piece can be handled at a time. They never leak or stink – keeping your hands and the lazarette clean.

The economics of electric mobility on the water

In recreational boating today, cleaner and more convenient electric propulsion systems require a price premium. Depending on frequency of use, this may be offset with lower operating costs and lower maintenance and winterization costs. Torqeedo offers full transparency on costs on our website. If you have questions, please don’t hesitate to contact Torqeedo or your nearest Torqeedo dealer.

In commercial applications, electric mobility is often not only ecologically superior, but also economically superior. Due to the substantially lower operating costs, electric propulsion systems often feature lower total cost of ownership and help commercial operations improve financial performance. Contact us to find out whether electric mobility will be economical for you.
Advanced engineering

No other electric boat motor manufacturer boasts such in-depth systems development, as many patents or as much capacity for innovation as Torqeedo.

Optimized components

A high-performance system requires high-performance components. Torqeedo employs in-house industrial engineering for all technologies required for electric mobility. All components are either developed by us or carefully selected to complete our systems.

A poorly designed propeller may only deliver 20% propeller efficiency, yet an outstanding one up to 75%. Torqeedo propellers are perfected over several thousand iterations by the same methods as those used when developing propellers for commercial ships and submarines. But that is not all: the propeller needs to be matched to the motor gear and the requirements of the application, a process called “drive train engineering”. When combined with automotive-grade batteries and bespoke electronics and controls, you have superb building blocks for electric propulsion. But it’s not a Torqeedo system yet.

We still must achieve an intelligent interaction between the individual components and create a system that is safe, does its job and delights the user. Only then have we created a true Torqeedo product. This systems-based approach is at the center of everything we do.

Seamless integration

Our software engineers ensure that all the high-tech features of Torqeedo’s motors like real-time range calculations, smartphone integrations, adaptive charging and battery safety protocols work properly. Coding can account for more than 30% of the development work for today’s electric propulsion systems, depending on the system’s complexity.

Torqeedo engineers develop data networks which allow different components to communicate with one another quickly and seamlessly: the system constantly exchanges status messages, integrates sensor data and evaluates the appropriate course of action in a matter of milliseconds. Software stops the motor if it senses an impact to the propeller and manages battery charging safely. All Torqeedo motors, even the smallest kayak motors, have a GPS receiver built in that constantly measures speed over ground. With speed data, together with how much power the motor is using, the displays show real-time range and runtime estimates. When integrated with a smartphone, the range remaining can even be displayed as a dynamic ring on a map. You never need to worry whether you have enough energy left to get home.

Prepared to drive the future

The most complex Torqeedo systems for large yachts or commercial applications simply wouldn’t work without precisely manufactured components and painstakingly programmed software. With these bigger and more complex applications, as the world leader in marine electric drives, it is Torqeedo’s responsibility to drive innovation and system development to the next level.

That’s why we put so much effort into the development and preproduction process – from planning and design to final testing. Torqeedo’s quality management system is ISO 9001-certified with DNV-GL and our 120 international patents for electric boating speak for themselves.

Besides rigorous endurance tests and electromagnetic compatibility testing, Torqeedo has almost 30 test benches operating just in our German headquarters outside Munich. These benches perform comprehensive and long-term testing, as well as specific tests for gaining additional product- and project-specific approvals – achieving or surpassing the highest quality standards in the maritime sector.
How we work: facts and figures

120

International and multinational patents held by Torqeedo and covering all components and systems of electric boat motors.

200,000 calculations per millisecond performed by the processor in the Torqeedo Travel 1103 motor. The computing power significantly improves motor response.

12%

Of Torqeedo’s turnover invested in research and development every year – a Silicon Valley level.

15

Lab benches for endurance testing and certifying compliance with international standards located in the German Torqeedo headquarters alone.

120

Overall efficiency levels of various outboards

Conventional electric outboards

Trolling motors

Combustion outboards

Torqeedo has the best efficiency levels in the boat motor market.
Ultralight

The Ultralight 403 A is the easy-to-mount solution for today’s fishing kayaks

+ Range of up to 62 miles
+ Weight as low as 19.4 lbs complete with battery
+ Easy to mount on fishing kayaks
+ Superb usability with a wealth of smart features
Kayaks
Canoes
Very light boats

New mount for 2019
New Ultralight mount

New intelligent mount

The lightweight, 1 HP equivalent Ultralight motor not only takes you where the fish are, it delivers hands-free kayak fishing, making it the preferred choice of professional anglers for years now. Torqeedo engineers have designed a new angler mount for the new model year, which fits the four mounting points built into the stern of most popular fishing kayaks.
Now with this durable, practical and versatile new mount for fishing kayaks, the Ultralight still allows kayakers to go farther and fish longer, with a system that’s much easier to mount, easier to use and faster to store and stow.
Two battery options are available – 320 and 915 Wh – so anglers can choose the capacity that fits their needs, their kayak and their waterways. The system offers a host of practical new features, including easy motor depth adjustment and a lightning-fast way to safely stow the motor for transport or remove it altogether. Simply pull and secure a cable to tilt the motor up when fishing in shallow waters or near the shoreline. The reverse lock cable allows the motor to be locked down for motoring in reverse (see description below) and then released so the automatic kick-up feature is activated again.
As before, integration with the kayak’s steering system is quick and easy, and the onboard computer delivers real-time range and runtime data. The Ultralight includes a tilt sensor and magnetic kill switch, which automatically cut the power if the kayak capsizes.
Touring kayaks, or kayaks without the four standard stern mounting points, can install the Ultralight with the optional mounting ball system.

Raising, locking and parking the smart way

No problem with obstacles
The new mount allows the motor to kick up toward the stern of the kayak when it encounters an underwater obstacle, minimizing damage.

Reversing with one simple action
Pull the reverse cord and simply hold tension or secure it in the included cleat. Release the cord when moving forward to enable the automatic kick-up feature.

Handy park position
Safely stowing the motor for transport is quick and easy with the new angler mount. Simply pull up and secure with the included elastic cord.
Ultralight: facts and figures

62 miles is the distance an Ultralight 403 AC motor can cover at slow speed with the energy from the Torqeedo 915 Wh battery.

5.8 mph is the top speed attained by angling kayaks with the new Torqeedo Ultralight 403 AC motor.

5 ms is all the time the Torqeedo emergency magnetic kill switch needs to cut the power supply to the motor, thereby quickly bringing the boat to a stop. The emergency magnetic kill switch is included with all Ultralight motors.
Fishing at the speed of Torqeedo

Torqeedo’s lightest outboard, the Ultralight 403, gets you to your favorite spot faster, and lets you stay there longer. It offers reliable performance, an innovative new angler mount and all the high-tech features of a genuine Torqeedo system: GPS built-in, real-time range and runtime display, solar charging and the latest lithium battery technology.

Mounting, control and charging accessories

Like all products from Torqeedo, Ultralight motors are offered with a full suite of high-tech accessories. The optional mounting ball can be used for attachment to a wide range of kayaks instead of the new standard mount. Spare batteries provide a quick and simple way of extending the range while out on the water. An optional cable connection with built-in Bluetooth module transmits all relevant boating and positioning data to the Torqeedo TorqTrac app.

A summary of the Ultralight accessories can be found starting on page 62 or online at www.torqeedo.com
Lithium-ion battery with capacity of up to 915 Wh. Waterproof to IP67. USB charging port for smartphone or camera. 

Electronic throttle with motor start button and emergency magnetic kill switch. 

With onboard computer display showing real-time information. 

New mount with tilt and park mechanism, plus simple integration with the kayak’s steering unit. 

Newly developed pylon with height-adjustable shaft and cutting-edge Torqeedo motor technology. 

Optional TorqTrac App 

<table>
<thead>
<tr>
<th>PERFORMANCE</th>
<th>Speed and range*</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ultralight 403 A with integrated battery</strong> (320 Wh/29.6V/11 Ah)</td>
<td><strong>Ultralight 403 AC with integrated battery</strong> (915 Wh/29.6V/31 Ah)</td>
</tr>
<tr>
<td>Hobie Mirage Revolution angling kayak (13.5 ft/58 lbs)</td>
<td>Hobie Mirage Revolution angling kayak (13.5 ft/58 lbs)</td>
</tr>
<tr>
<td>Speed in knots (mph)</td>
<td>Range in nm (miles)</td>
</tr>
<tr>
<td>approx. 2.3 (2.6)</td>
<td>approx. 18.9 (21.7)</td>
</tr>
<tr>
<td>approx. 3.2 (3.7)</td>
<td>approx. 13.5 (15.5)</td>
</tr>
<tr>
<td>approx. 5.0 (5.8)</td>
<td>approx. 4.0 (4.6)</td>
</tr>
</tbody>
</table>

* Dependent on factors such as type of boat, load, propeller and ambient conditions. Figures for speed and range are indicative only and are not a guarantee of performance.
Travel

Ultra-quiet, clean and compact - the new flagship Travel 1103 C model raises the bar for electric outboards, boasting a 10% power boost over the Travel 1003 and an extra-robust design.
New top-of-the-range model Travel 1103 C

- Silent direct-drive
- Instantaneous throttle response
- 10% more power
- Improved durability

All Travel models

- Lightweight design, starting from 30.6 lbs including battery (Travel 503 S)
- Easy handling, fast battery swaps, simple to transport
- Onboard computer with GPS, remaining range, charge status and additional functions
The new range-topping Travel 1103 C: powerful, efficient and quiet as a whisper

The top-of-the-line 1103 C model is a new addition to the globally successful Travel series. Featuring a new, direct-drive motor design, it is the quietest motor in its class at just 33 dB. It comes with the high-capacity 915 Wh battery – a range-extending 73% increase in capacity compared to the base model. The 1103 C also delivers 10% more power from 1,000 to 1,100 W, a stronger aluminum pylon for increased protection from impact damage and an upgraded transom mount. Just like the proven Travel 1003 model, the new 1103 C is suitable for boats up to 3,000 lbs, while the smaller Travel 503 model is ideal for powering boats up to 1,650 lbs. All Torqeedo Travel motors come with a high-performance lithium-ion battery and a built-in onboard computer.

USB adapter
Motor accessories

Like all products from Torqeedo, Travel motors are offered with a full suite of high-tech accessories. It’s easy to add a spare battery or a remote throttle for operating the motor from the helm instead of the tiller, or choose the TorqTrac smartphone app. With the optional Bluetooth dongle installed, TorqTrac turns your compatible smartphone into a bright, easy-to-read onboard computer with a number of useful motor and battery readouts. The app is available from the App Store (iOS) or Google Play Store (Android).

Convenient Travel bag set protects the motor, tiller and accessories and includes a separate, easy-to-carry battery bag. Further details can be found online at www.torqeedo.com or on page 62.

Travel: facts and figures

Travel 503 with integrated 320 Wh battery
(29.6 V/11 Ah)
Inflatable, dinghy, daysailer up to 1650 lbs

- Speed in knots (mph): approx. 2.0 (2.3)
- Range in nm (miles): approx. 12.8 (14.7)
- Running time in hh:mm: 06:20

Slow: approx. 3.0 (3.4) approx. 6.4 (7.4) 02:08
Half throttle: approx. 4.0 (4.6) approx. 2.8 (3.2) 00:42
Full throttle: approx. 5.0 (5.7) approx. 2.9 (3.4) 00:35

* Dependent on factors such as type of boat, load, propeller and ambient conditions. Figures for speed and range are indicative only and are not a guarantee of performance.

Travel 1003 with integrated 530 Wh battery
(29.6 V/18 Ah)
Inflatable, dinghy, daysailer up to 1.5 tons

- Speed in knots (mph): approx. 2.0 (2.3)
- Range in nm (miles): approx. 21.0 (24.2)
- Running time in hh:mm: 10:30

Half throttle: approx. 3.0 (3.4) approx. 10.5 (12.0) 03:30
Full throttle: approx. 5.0 (5.7) approx. 2.9 (3.4) 00:35

Travel 1103 C with integrated 915 Wh battery
(29.6 V/31 Ah)
Inflatable, dinghy, daysailer up to 1.5 tons

- Speed in knots (mph): approx. 2.0 (2.3)
- Range in nm (miles): approx. 40.0 (46.0)
- Running time in hh:mm: 20:00

Half throttle: approx. 3.0 (3.4) approx. 18.0 (20.5) 06:00
Full throttle: approx. 5.5 (6.2) approx. 4.6 (5.2) 00:50

3:50 hrs

is the 1003 C’s overall weight, including the integrated lithium battery, making it the lightest electric outboard in its class. The new Travel 1103 C adds 10% more power, increased durability and is much quieter, while weighing just 5.3 lbs more.

32.8 lbs

to fully recharge the 320 Wh battery of the Travel 503 using the standard charger.

33 db

is the noise level of a human whisper. It’s also the dB rating for the new Travel 1103 C. More power and durability, yet barely audible on the water.
Sustainability was at the heart of every decision when RS Sailing, the world’s largest small-sailboat manufacturer, designed their new keelboat. The result is the new RS21, with a Travel 1003 motor providing convenient electric auxiliary power. RS Sailing’s team designed an innovative retractable mounting system that is incredibly easy to use. Simply slide the motor down to use it and pull it up when sailing – a bottom plate fits flush to the underside of the hull for unimpeded performance. The clean and efficient Torqeedo system ensures sailors can get home if the wind dies, offers enhanced safety and easy docking, and complements the other green aspects of the RS21’s construction, including a core made from recycled plastic bottles and a design that maximizes freight efficiency through a stackable design. This allows an amazing six boats to fit in a single shipping container, further lightening the RS21’s climate impact.

Down position:
When it’s time to motor, uncleat the line and extend the integrated Travel 1003 for 3 HP equivalent of emission-free power. Motoring in and out of harbor is simple and quiet with an integrated throttle and onboard computer with real-time range and runtime calculation.

Up position:
When it’s time to sail, simply pull up the motor and secure the line. The hull is completely flush and ready for racing while the motor and battery are securely stowed. The lightweight lithium-ion battery is easy to remove when it’s time to charge.
“With Torqeedo, the motor has been turned from an awkward necessity into a pleasurable feature.”

Alex Southon, RS Technical MD
Cruise outboards

- Minimum weight with maximum performance
- Onboard computer with GPS
- Durable and extremely robust design
- Effective corrosion protection for fresh and salt water
- Extended range thanks to very high energy density batteries

Proven, reliable motors with upgraded lithium batteries are the ultimate power packs for sailing or motorboats
Motorboats, dinghies, sailboats, water taxis, passenger ferries and commercial applications up to 10 tons.
Cruise outboards product range

Well-proven, long-lasting and beautifully integrated

Since their premiere in 2006, Cruise motors have been delighting users with power requirements between 5 and 20 HP equivalents. The outboard motor of choice for motorboats, dinghies and commercial users, the two smaller units (pictured on the left, 5 HP/8 HP equivalents) come with a choice of a tiller or an electronic throttle lever and can be fitted quickly and easily with minimal tools. Cruise motors have a built-in GPS, with on-board computer and display, showing information such as speed and input power, state of charge and remaining range, even with third-party batteries. They have a robust, wear-resistant design thanks to features such as a housing that is waterproof to IP67, pylons made from aluminum and a specially reinforced fin. They team up with the purpose-developed propellers and additional Torqeedo components to create a highly impressive package. The flagship model in the Cruise series (pictured on the right, 20 HP equivalent) delivers 12 kW of peak output and a continuous output of 10 kW, which can propel efficient boats up to a maximum speed of 19 mph. This powerful motor will also be available as the tiller-equipped Cruise 10.0 T in 2019.

New for 2019

Cruise 2.0/4.0 R
Cruise 2.0/4.0 T
Cruise 10.0 R
Cruise 10.0 T
Motor accessories

Like all products from Torqeedo, the Cruise motors combine perfectly with the safest lithium batteries on the market today (page 38), and a broad choice of propellers that deliver either more thrust or more top-end speed. Premium throttles, which come with built-in Bluetooth for easy integration with the TorqTrac app, are another standout accessory for the Cruise lineup.

The Torqeedo throttle controls are available for either side or top mounting. More information can be found on page 62 or online at www.torqeedo.com.

Cruise: facts and figures

The extra energy provided by the new Torqeedo Power 24-3500 battery compared to the previous model - despite being the exact same size and almost the same weight.

The distance that a Cruise 10.0 motor is capable of covering with two Power 48-5000 batteries at a speed of nearly 17 mph or 14 knots.

The time required by the new Torqeedo fast charger to recharge a Power 48-5000 battery.

PERFORMANCE

Speed and range*

<table>
<thead>
<tr>
<th>Cruise 2.0 with 1 x Power 24-3500 (26 V, 3500 Wh, battery weight 56 lbs) Motorboats and sailboats up to 3 tons</th>
<th>Cruise 4.0 with 1 x Power 48-5000 (44.4 V, 5000 Wh, battery weight 82 lbs) Motorboats and sailboats up to 4 tons</th>
<th>Cruise 10.0 with 2 x Power 48-5000 (44.4 V, 2 x 5000 Wh, battery weight 164 lbs) Motorboats and sailboats up to 10 tons</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speed in knots (mph)</td>
<td>Range in nm (miles)</td>
<td>Running time in hh:mm</td>
</tr>
<tr>
<td>approx. 2.7 (3.1)</td>
<td>approx. 21.0 (24.9)</td>
<td>08:00</td>
</tr>
<tr>
<td>approx. 6.0 (6.8)</td>
<td>approx. 10.5 (11.8)</td>
<td>01:45</td>
</tr>
<tr>
<td>Speed in knots (mph)</td>
<td>Range in nm (miles)</td>
<td>Running time in hh:mm</td>
</tr>
<tr>
<td>approx. 2.7 (3.1)</td>
<td>approx. 27.0 (31.1)</td>
<td>10:00</td>
</tr>
<tr>
<td>approx. 7.0 (8.1)</td>
<td>approx. 9.0 (9.9)</td>
<td>01:15</td>
</tr>
<tr>
<td>Speed in knots (mph)</td>
<td>Range in nm (miles)</td>
<td>Running time in hh:mm</td>
</tr>
<tr>
<td>approx. 4.2 (4.8)</td>
<td>approx. 32.0 (37.3)</td>
<td>06:00</td>
</tr>
<tr>
<td>approx. 14.0 (16.5)</td>
<td>approx. 14.0 (16.5)</td>
<td>01:00</td>
</tr>
</tbody>
</table>

* Dependent on factors such as type of boat, load, propeller and ambient conditions. Figures for speed and range are indicative only and are not a guarantee of performance.
Cruise pod drives

Quiet and eco-friendly, light-weight Cruise pods free up space below decks and can charge their own batteries while under sail.
- Much lighter than equivalent combustion saildrives
- Virtually silent while in use
- Fume-free with fuel spills eliminated
- Powerful lithium batteries provide long-range motoring
- Minimal impact on sailing speed
- Durable design and excellent corrosion protection for fresh and salt water

Sailboats up to 10 tons
Commercial applications

5 HP equivalent
8 HP equivalent
20 HP equivalent
Cruise pod drives product range

Long-lasting, robust and efficient

For sailboats up to 10 tons, the advantages of electric pod motors are stunningly clear. Beautifully quiet and clean-running Torqeedo motors make diesel saildrives look, sound and smell like the relics they are. Cruise pods deliver highly impressive performance and long range when paired with Torqeedo’s lightweight lithium batteries (page 38), and take up minimal space below deck. The built-in GPS, onboard computer and display take all motor, battery and charging data into account and display it clearly, providing a perfectly harmonized drive system.

PERFORMANCE

Sailboats up to 3 tons

<table>
<thead>
<tr>
<th>Model</th>
<th>Battery Type</th>
<th>Battery Weight</th>
<th>Propeller</th>
<th>Ambient Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cruise 2.0 FP</td>
<td>Power 24-3500</td>
<td>56 lbs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cruise 4.0 FP</td>
<td>Power 48-5000</td>
<td>82 lbs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cruise 10.0 FP</td>
<td>Power 48-5000</td>
<td>164 lbs</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Speed and range*

<table>
<thead>
<tr>
<th>Model</th>
<th>Speed (knots)</th>
<th>Range (nm)</th>
<th>Running Time (hh:mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cruise 2.0 FP</td>
<td>Slow</td>
<td>approx. 2.7</td>
<td>approx. 21.0 (24.9)</td>
</tr>
<tr>
<td></td>
<td>Full throttle</td>
<td>approx. 6.0</td>
<td>approx. 10.5 (11.8)</td>
</tr>
<tr>
<td>Cruise 4.0 FP</td>
<td>Slow</td>
<td>approx. 2.7</td>
<td>approx. 27.0 (31.1)</td>
</tr>
<tr>
<td></td>
<td>Full throttle</td>
<td>approx. 6.0</td>
<td>approx. 7.5 (8.4)</td>
</tr>
<tr>
<td>Cruise 10.0 FP</td>
<td>Slow</td>
<td>approx. 3.0</td>
<td>approx. 30.0 (34.2)</td>
</tr>
<tr>
<td></td>
<td>Full throttle</td>
<td>approx. 7.0</td>
<td>approx. 7.0 (8.1)</td>
</tr>
</tbody>
</table>

* Dependent on factors such as type of boat, load, propeller and ambient conditions. Figures for speed and range are indicative only and are not a guarantee of performance.
Cruise pod drives product range

Test results: does a pod motor make sailboats slower?

As efficiency is a core principle at Torqeedo, we calculated the flow resistance of a 30’ Dehler yacht with a pod motor. The impact on performance of a Cruise 2.0 or 4.0 pod motor is minimal, with a decrease in speed of less than 0.04 knots compared to the same boat with no motor installed.

The flow pattern recorded during the measurements factors in variables such as heeling and drift.

The uniform flow lines around the Torqeedo pod motor demonstrate its minimal impact on resistance while sailing.

Accessories

Torqeedo Cruise motors work flawlessly with the specially developed premium throttles, chargers and TorqTrac app.

New for 2019

Fast charger 2900 W for Power 48-5000

Specifically developed for fast charging the Power 48-5000, this 2,900 W charger can fully charge a single battery in just under two hours, and a bank in less than four hours.

Folding propeller

The optional Torqeedo folding brass propeller minimizes flow resistance and has negligible impact on sailing speed. It offers the possibility of hydrogeneration at high sailing speed.

Cruise pod system

Your boat – our fully integrated solution

More than just a motor company, Torqeedo is the only manufacturer that can deliver a fully customizable drive system with carefully matched and tested components, all from a single source. For this purpose, the tried-and-tested Torqeedo Cruise motors are matched with high-performance lithium-ion batteries and electronic throttles. These are complemented by a state-of-the-art user interface plus the Torqeedo TorqTrac app for smartphones. The batteries can be charged from shore power using Torqeedo chargers, from solar power or from a generator. This smart system can also charge its own batteries while sailing if placed in hydrogeneration mode. Torqeedo’s Cruise pod systems are suitable for sailboats from 25 to 40 feet.

Example layout:
Torqeedo adapts the system to the specific requirements of every customer.
High-tech and eco-friendly

Cruise motors offer an ideal, cost-effective electric alternative for ferries, tour boats or autonomous marine applications.

Cruise motors in action for whale research

The unmanned research vessel belonging to French robotics company Sea Proven tracks the song of sperm whales, who spend 90% of their time submerged at great depths. Thanks to their virtually silent operation, the Torqeedo motors are ideal for this mission as they neither disturb these noise-sensitive creatures, nor can they be heard in the recordings of the drone’s own hydrophones. The vessel draws all of its energy from solar collectors and a small wind generator mounted on deck.

Benefits at a glance

+ Excellent reliability of the Torqeedo products backed by many years of experience in the boating sector
+ Reduced maintenance requirements keep commercial boats on the water longer
+ Better for the climate and a more pleasant user experience
+ In-house development and systems expertise for complex projects
+ Years of experience supporting commercial customers
Cruise battery technology

Superior battery technology

Safe, powerful and easy to use - Power batteries are the ultimate energy source for Cruise motors or house loads

Lithium-based batteries are the technology of choice for electric mobility applications. They store significantly more energy than all other batteries, maintain a high current (a major advantage for electric drive systems), do not lose their charging capacity, supply power reliably even in cold weather and have no memory effect. They also provide many more cycles than lead-based batteries.

Torqeedo has been a pioneer in the development of lithium batteries for marine applications for more than a decade. Since we make our batteries just a little bit better each year, we offer the most comprehensive and integrated protection and safety concept for lithium batteries on the market – coupled with performance and convenience.

Intelligent battery management system (BMS)

The BMS monitors and protects Torqeedo batteries against overcharging, overcurrent, deep discharge, short-circuit and overheating. The battery has comprehensive safety features, and each safety-relevant component is duplicated with a backup component should it fail. In addition to these safety features, the BMS safeguards the battery’s life expectancy with balancing and deep-sleep functionality.

Safe and easy to transport

Thanks to their high energy density, the volume and weight of lithium batteries are more than 70% lower than comparable AGM or lead-gel batteries. This makes our low-voltage batteries simple to handle and light to carry. On top of that, Torqeedo Power and Deep Blue batteries can be switched on and off, allowing them to be safely transported and installed and protecting them against unintentional discharge.
Cruise

High-quality safety cells
Several hardware mechanisms in every single cell provide additional safety. Torqeedo only uses cells based on lithium (Li-NMC) sourced from the clean, precision production processes of reputable manufacturers. In the case of the new Power 48-5000, the modules are produced by BMW i.

Dependable and efficient

System communications
The battery electronics continuously communicate all the details of the battery status to the onboard computer.

Completely waterproof
Waterproof housing (IP67): While battery immersion should be avoided, all Torqeedo batteries are, without exception, completely waterproof. The waterproof characteristics of each battery are individually tested prior to delivery.

Waterproof connections: whether connected or not, all cable connectors are completely waterproof to IP67.

Safety of lithium batteries
Besides performance, safety plays an important role for lithium batteries. In our view, five factors need to be considered in order to ensure that safe really means safe:

1. Safe battery chemical engineering, such as LiNMC (lithium nickel manganese cobalt oxide).

2. Safe cell packaging: Torqeedo uses only individually welded safety cells: either steel cylindrical or assembled into modules and equipped with multiple safety mechanisms. Other forms of packaging offer a lower standard of safety as they afford less effective protection against short-circuiting within the cells.

3. Clean, precision production processes on the part of the cell manufacturers: Torqeedo only uses cells and modules sourced from the most reputable brands in the world.

4. Battery management system (BMS) with redundant safety features: Unlike lead-based batteries, lithium batteries always need a BMS to perform balancing and safety functions. If electronic components of the BMS fail it can itself become a safety problem for the battery. That’s why there is hardware backup for all safety-relevant components in Torqeedo batteries. Incidentally, this is also stipulated in the automotive industry, in aerospace and for medical technology.

5. Waterproof to IP67: Water in lithium batteries can lead to various problems such as corrosion of the BMS hardware or the creation of electrolytic gas. Lithium batteries on board a boat should, therefore, be waterproof.
Cruise batteries

Power boost

Following the launch of the Power 48-5000 last year, Torqeedo’s 24 V lithium battery receives a higher capacity and a technical update for 2019. The new Power 24-3500 increases energy density to an impressive 138 Wh/kg and tips the scales at just 25.3 kg, (55.8 lbs), only 2 lbs more than the previous model. The 1,700 W fast charger can fill up the Power 24-3500 in just under two hours, making this lithium pack perfect for recreational or commercial use.

Technical Data

<table>
<thead>
<tr>
<th></th>
<th>Power 48-5000</th>
<th>Power 24-3500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Useable energy</td>
<td>5,000 Wh</td>
<td>3,500 Wh</td>
</tr>
<tr>
<td>Nominal voltage</td>
<td>44.4 V</td>
<td>25.9 V</td>
</tr>
<tr>
<td>Weight</td>
<td>37.0 kg (81.6 lbs)</td>
<td>25.3 kg (55.8 lbs)</td>
</tr>
<tr>
<td>Energy density (weight)</td>
<td>135 Wh/kg</td>
<td>138 Wh/kg</td>
</tr>
<tr>
<td>Maximum discharge rate</td>
<td>200 A (8,880 W at nominal voltage)</td>
<td>180 A (4,500 W at nominal voltage)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>19.9 x 15.2 x 8.8 inches</td>
<td>22.7 x 8.6 x 10 inches</td>
</tr>
<tr>
<td>Battery chemistry</td>
<td>Li NMC</td>
<td>Li NMC</td>
</tr>
<tr>
<td>Cycle lifetime</td>
<td>&gt; 3,000 cycles at 80% depth of discharge at 25 °C results in approx. 20% capacity loss</td>
<td>800 cycles at 100% depth of discharge at 25 °C results in approx. 25% capacity loss</td>
</tr>
<tr>
<td>Annual capacity loss</td>
<td>&lt; 3%</td>
<td>4%</td>
</tr>
<tr>
<td>Max. connections</td>
<td>2P</td>
<td>25P or 1516P</td>
</tr>
<tr>
<td>Price-performance</td>
<td>1.04 USD/Wh</td>
<td>0.86 USD/Wh</td>
</tr>
</tbody>
</table>
Professional performance

“These new boats give passengers a unique experience, cruising smoothly and quietly through the canals, consuming no fuel and keeping our air and water clean.”

Douglas Melnick,
Chief Sustainability Officer, City of San Antonio

The San Antonio River Walk is a network of walkways along the banks of the San Antonio River lined by restaurants, shops, bars, theatres, museums, parks, and the city's major tourist attractions. It is an important part of the Texas city's identity and urban fabric, and has inspired similar projects in other cities across the United States and Latin America. The River Walk boasts a fleet of 44 passenger boats which normally act as water taxis but can also be configured to support tours, dining, entertaining and special events. The boats are powered by zero-emission Cruise 10.0 outboard motors and typically cruise at 4 knots, while the bank of 16 Power batteries provides enough energy to operate up to 12 hours without recharging. “We are impressed with the boats’ acceleration, maneuverability and performance in the narrow canals,” said John Jacks, Director Center City Development and Operations Dept.
Deep Blue

More powerful motors and batteries in 2019 open up new applications for this fully integrated propulsion and energy management system

+ Motors up to 100 kW are available in a high-rpm version for planing boats and low-rpm for displacement vessels
+ Upgraded 40 kWh batteries deliver the latest in automotive technology, adapted for marine use
+ Sets industry standards for production quality and safety systems
+ Clean, renewable energy generation with automatic generator backup
Yachts up to 120 feet
Large motorboats
Boats in nature reserves
Boats for commercial use, such as water taxis, ferries and tour boats
The modular, scalable, single-source solution

More than just a battery-powered electric motor, Deep Blue is a fully integrated propulsion and energy management system – customizable with modular components and industrially engineered to meet the highest demands. The result: exceptional performance and safety, compliance with international standards at the system level and highly intuitive operation. This single-source turnkey solution is available as an outboard, inboard or saildrive for recreational boats and commercial applications.

**Deep Blue system**
The essential Deep Blue configuration is suitable for vessels with access to shore charging and a priority on propulsive power. The system components, from propeller to high-tech user interface, are perfectly matched and integrated to provide emission-free, quiet and powerful propulsion.

1. Powerful electric motor
2. 360 V high-capacity lithium battery system
3. Onshore power chargers
4. Drive connection box
5. Electronic throttle
6. Display with onboard computer

**Deep Blue Hybrid system**
This integrated, modular system is suitable for larger vessels, oceangoing yachts or commercial vessels with complex onboard energy requirements. Deep Blue Hybrid provides complete energy management – each component’s energy demands are monitored and managed by the central system, ensuring economical collection and distribution of clean, renewable energy with automatic generator backup when necessary.

1. Powerful electric motor
2. 360 V high-capacity lithium battery system
3. 12 V batteries
4. Efficient state-of-the-art diesel generator
5. Onshore power chargers
6. System Management Unit
7. Onshore power connection
8. System connection box
9. AC inverter
10. Isolated AC power system (120/240 V AC current, 50/60 Hz)
11. Bi-directional DC/DC converter
12. 24 V on-board batteries
13. Solar charge controller
14. Photovoltaic modules
15. Electronic throttle
16. Display with onboard computer
Always in control

Deep Blue Hybrid offers intuitive operation presented on the multifunctional display, providing a complete overview of the entire system and access to all control functions. The software keeps an eye on everything and prevents errors like deep-discharging batteries. An easy-to-understand graphical user interface is available as either multihull or monohull and delivers complete, up-to-the-minute system visualization.

**Main menu:** Navigate easily between different categories.

**System management:** Provides status data on all system components. Select individual components for more detail.

**Drive screen:** All important information needed while motoring. You can choose to display or hide the information line at the top.

**Energy flow:** Understand your system’s power balance and energy flow at a glance.
When designing a new sailing yacht or contemplating a refit, each component must be evaluated to be sure it does its job, works well with the rest of the onboard systems and provides the best user experience possible. Deep Blue and Deep Blue Hybrid, with powerful electric motors available up to 100 kW, make yachting more convenient and more environmentally friendly, while reducing dependence on shore supplies through onboard generation of clean, renewable power. Add in worldwide service, 24-hour support, a 9-year limited battery warranty and the peace of mind that comes with choosing the world leader in electric mobility on the water and this choice couldn’t be clearer.

Privilège

The luxurious Privilège Series 5 catamaran is known as “the ultimate liveaboard.” Le Penseur, an owner’s version with the complete Deep Blue Hybrid electric propulsion and energy management system, lives up to this superlative with its stunning owner’s suite and spacious galley and salon. Le Penseur is powered by twin 50kW Deep Blue inboards and high-capacity lithium batteries with BMW technology (i8-type). The hybrid control system automatically harvests clean energy from a 2.4 kWp solar array and through hydrogeneration while under sail. The owner can enjoy all the amenities on board without noise and exhaust fumes because all house loads, including climate control, watermaker and the galley, are supplied through a 24 V Torqeedo battery bank, kept charged by the high-voltage system. An efficient DC diesel generator serves as backup to the renewable energy sources. Clean, quiet and well-appointed, the Series 5 with Deep Blue Hybrid takes living aboard to a new level of luxury and sustainability.
The Spirit 111, currently under construction at Spirit Yachts’ headquarters in the UK, was commissioned by an experienced yachtsman who will cruise in the Mediterranean and compete in superyacht regattas. The brief to Spirit Yachts from the owner was that he wants to spend considerable amounts of time aboard while minimizing fuel consumption and emissions. Each of the 111-foot yacht’s onboard systems has been chosen for its green credentials, including the Deep Blue Hybrid electric propulsion and clean energy management system. With a 100 kW Deep Blue inboard and four 40.0 kWh lithium batteries with technology by BMW (i3-type), this ground-breaking new superyacht will charge its own batteries while under sail and, with careful consumption, the yacht will be able to operate solely on battery power. For long-distance motoring, the Spirit 111 is installed with two efficient backup generators. When complete, the Spirit 111 will be Spirit Yachts’ largest sailing yacht to date and will be one of the most environmentally friendly superyachts on the water today.

**Technical data**

<table>
<thead>
<tr>
<th>Inboards</th>
<th>Deep Blue 25i</th>
<th>Deep Blue 50i</th>
<th>Deep Blue 100i 900</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. propeller speed</td>
<td>1,400 rpm</td>
<td>1,400 rpm</td>
<td>900 rpm</td>
</tr>
<tr>
<td>Output (peak)</td>
<td>33 kW</td>
<td>60 kW</td>
<td>110 kW</td>
</tr>
<tr>
<td>Output (continuous)</td>
<td>25 kW</td>
<td>50 kW</td>
<td>100 kW</td>
</tr>
<tr>
<td>Torque</td>
<td>350 Nm</td>
<td>350 Nm</td>
<td>1070 Nm</td>
</tr>
<tr>
<td>Weight (incl. electronics)</td>
<td>187 lbs</td>
<td>187 lbs</td>
<td>992 lbs</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Saildrive</th>
<th>Deep Blue 25 SD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. propeller speed</td>
<td>1,360 rpm</td>
</tr>
<tr>
<td>Output (peak)</td>
<td>33 kW</td>
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<tr>
<td>Output (continuous)</td>
<td>25 kW</td>
</tr>
<tr>
<td>Torque</td>
<td>180 Nm</td>
</tr>
<tr>
<td>Weight (incl. electronics)</td>
<td>276 lbs</td>
</tr>
</tbody>
</table>

**New for 2019**

**Deep Blue 100i 900**

Suitable for yachts up to 120 feet long, this robust direct-drive motor delivers the low rotational speeds necessary to efficiently power large sailing yachts and other heavy displacement vessels. This new addition to the Deep Blue family delivers 100 kW of continuous, emission-free power, ultimate torque, low maintenance and is powered by high-capacity batteries with technology by BMW i.
Independence – Atlantic crossing

Moonwave is a high-performance racing catamaran with a striking design and all carbon fiber and epoxy construction. Every aspect of this top-flight Gunboat 60 was chosen for its light weight and durability. Installing Deep Blue Hybrid’s electric propulsion and energy management system made the yacht lighter and more environmentally friendly, while increasing its independence.

Moonwave’s narrow, efficient hulls are easily propelled by two Deep Blue 25 kW saildrives with folding propellers. While sailing in hydrogeneration mode, the propellers are activated and add energy to the battery for propulsion or to supply the vessel’s house loads, winches and hydraulic controls. Additionally, a state-of-the-art, 215-square-foot solar photovoltaic array by Gochermann Solar Technology delivers 4 kWp of solar power to both the high- and low-voltage onboard systems. Furthermore, under high sailing speed, the Deep Blue system is able to win back up to 7 kW power in hydrogeneration.

This abundance of power from multiple, redundant sources proved an important advantage on Moonwave’s first transatlantic crossing since the refit.

The clean, silently generated electricity is stored in a single Deep Blue high-capacity battery (i3-type) which delivers plenty of power for the large on-board consumers, e.g. watermaker, washing machine and electric cooking. The automotive-grade lithium battery has a 9-year capacity warranty and offers industry-leading energy density, reducing weight and increasing performance even further.

“With the Deep Blue Hybrid system, we have gained reliability, autonomy and performance. Moonwave has become more than 3 tons lighter and a big part of this is thanks to the new Deep Blue Hybrid sys-
tem and components. Now that we have so much power available with increased storage capacity and two real and efficient production systems (solar and hydrogenation), we can enjoy all the luxurious amenities on board Moonwave without restriction or compromise. Moonwave is the living proof that there is finally a hybrid system that can be trusted. 7,500 nautical miles in about two months, including an Atlantic crossing, and Moonwave is still steaming full power ahead, her crew still smiling and her owner is extremely happy,” says Sébastien Lafitte, captain of SY Moonwave.


“Moonwave is the living proof that there is finally a hybrid system that can be trusted.”

Sébastien Lafitte, Captain of SY Moonwave.

Rest easy. If renewable energy supplies aren’t keeping up with demand, a highly efficient DC generator serves as backup. The system ensures the batteries are fully charged before bedtime, ensuring a good night’s sleep.
Deep Blue drives for motorboats

The strong, silent type

Deep Blue delivers powerful performance without the noise, exhaust and fumes of a combustion engine

CEBC Volt 180

The Volt 180 by Canadian Electric Boat Company features a Deep Blue 50 kW outboard drive with high-capacity batteries by BMW i. The 18-footer has a spacious, open interior with seating for up to 12 and can also be fitted with Torqeedo’s 8 HP equivalent Cruise 4.0 motor for a clean and quiet harbor or canal cruiser. Manufactured in Boisbriand, Canada, Canadian Electric Boat Company’s online ordering process and state-of-the-art manufacturing facilities enable the company to produce a boat to client specifications in as little as 7 weeks. A proprietary infusion hull technique assures sound structural integrity and full control of the composite materials layout.

Hinckley Dasher

Hinckley, the builder of America’s finest yachts for nearly 90 years, continued its legacy of innovation with the brand’s first fully electric luxury yacht – Dasher. Designed from the outset for fully electric propulsion, Dasher achieves a new standard of excellence pairing modern styling with hi-tech composite construction including a carbon-epoxy hull designed by Michael Peters and hand-painted, lightweight composite Artisanal Teak. Dasher powers her 28 feet 6 inches with twin 50 kW Deep Blue inboard motors and batteries with technology by BMW i, delivering a cruising speed of 8 mph, a top speed of 27 mph and a continuous top speed of 23 mph. Time underway at cruise is 5 hours.
Avon eJET450

Zodiac Nautic’s luxury yacht tender brand, Avon, brought the world’s first fully electric jet tender to market. Torqeedo’s 50kW Deep Blue motor is matched with a custom jet drive and a single high-capacity lithium-ion battery (i3-type). The eJET gets 90 minutes of range at 23 knots, achieves a max speed of 31 knots and also has connected capabilities allowing remote maintenance and upgrades. The eJET is the perfect yacht tender, offering great performance and a reduced environmental impact.

New for 2019

40 kWh Deep Blue battery (i3-type)

Deep Blue-powered motorboats are getting an upgraded, higher-capacity power source: a 40 kWh Deep Blue battery with roughly 31% more capacity in the same footprint. Made suitable for use in the marine environment with additional waterproofing and shock protection, this battery features industry-leading energy density and a comprehensive safety system.
Deep Blue drives for motorboats

25 kW 50 kW 100 kW

Deep Blue 25/50 R
Deep Blue 25/50 i

Leave a clean wake

The first and only high-power electric drive system for motorboats from industrial production, Deep Blue offers exceptional performance, professional safety and easy operation. Motorboats and fast yacht tenders can choose from our high-tech inboard or outboard models up to 100 kW and from two lithium battery models. The 40.0 kWh i3-type battery is the ultimate standalone energy source, while the 10.0 kWh i8-type battery offers a smaller footprint and more flexibility for boats with limited space. With a 9-year limited battery capacity warranty, outstanding efficiency and a proven long service life, Deep Blue is the exclusive solution for powerful electric motorboats.

Technical data

Outboards
- Max. propeller speed: Deep Blue 25 R 2,400 rpm, Deep Blue 50 R 2,400 rpm
- Output (peak): Deep Blue 25 R 33 kW, Deep Blue 50 R 66 kW
- Output (continuous): Deep Blue 25 R 25 kW, Deep Blue 50 R 50 kW
- Torque: Deep Blue 25 R 205 Nm, Deep Blue 50 R 205 Nm
- Weight (incl. electronics): Deep Blue 25 R from 306 lbs, Deep Blue 50 R from 306 lbs

Inboards
- Max. propeller speed: Deep Blue 25i 1,800 rpm, Deep Blue 50i 1,800 rpm, Deep Blue 100i 2400 2,400 rpm
- Output (peak): Deep Blue 25i 33 kW, Deep Blue 50i 60 kW, Deep Blue 100i 2400 110 kW
- Output (continuous): Deep Blue 25i 25 kW, Deep Blue 50i 50 kW, Deep Blue 100i 2400 100 kW
- Torque: Deep Blue 25i 280 Nm, Deep Blue 50i 280 Nm, Deep Blue 100i 2400 390 Nm
- Weight (incl. electronics): Deep Blue 25i 187 lbs, Deep Blue 50i 187 lbs, Deep Blue 100i 2400 331 lbs

New for 2019

Deep Blue 100i 2400

This brand-new 100 kW motor was specifically constructed to power fast, planing motorboats. With a reliable, low-maintenance, direct-drive design, the Deep Blue 100i delivers extraordinary performance, with up to 2,400 rotations per minute and a torque of 390 Nm.
Deep Blue: facts and figures

12 g is the shock force boats may experience in heavy seas. Torqeedo designed the first shock protection device for lithium batteries in the marine industry.

1.5 hours

The Deep Blue battery can charge up to 75% capacity in as little as 1.5 hours when properly equipped with multiple chargers and adequate shore supplies are available.

31%

more energy in the same footprint with the new Deep Blue high-capacity battery
Chart a new course

Reduce operating costs, improve user experience and minimize your carbon footprint with Deep Blue.
Commercial

Remote diagnostics and service
Wirelessly connect the Deep Blue Hybrid system with Torqeedo specialists for remote updates and diagnostics. Many hardware and software issues can be efficiently addressed. If First Response Kit is on site, downtime is minimized.

Dedicated telephone support
24/7 telephone support with direct access to a Torqeedo technician and/or a local service partner is available with a Premium Service agreement.

E-mail an expert
Our technicians and engineers will provide remote support and advice at your convenience. E-mail is a great way to schedule preventive and system maintenance appointments.

Torqeedo Service
Fast-response on-site service is available with a Premium Service agreement. A Torqeedo technician will arrive at your place of business within 18–48 hours.
Commercial applications

Award-winning Spanish solar ferry

The ECOCAT is an 59-foot, 120-passenger ferry which runs on 100% solar-electric power – with no auxiliary combustion engine. The ferry is part of the Mar Menor fleet in southern Spain, an ideal climate for a fully solar vessel. Deep Blue’s energy management system manages all onboard energy consumers and clean power production via 40 kWp of roof-mounted solar panels. The ferry is propelled by two 50 kW Torqeedo Deep Blue electric motors and eight Torqeedo 30.5 kWh high-capacity batteries with technology by BMW. Torqeedo received the European Commercial Marine Awards (ECM) prestigious Maritime Sustainability Award for its contributions to the development of the ECOCAT, which was built by Metaltec Naval Shipyards and designed by m2 Ingenieria Naval.

Eco-tours in Vietnam

A fleet of 15 Deep Blue-powered passenger excursion boats are used for sightseeing tours of the River Safari jungle habitat at Vinpearl Land Nam Hoi An, a massive theme park in Hoi An, Vietnam, as well as for entertainment in the replica Hoi An Old Town section of the park. The whisper-quiet electric boats allow guests to get close to the rare animals that live in the River Safari without disturbing their natural behavior. The theme park and resort will significantly lower operating costs and improve their guests’ onboard experience with no engine noise, vibration or exhaust fumes. The boats are powered with a 50kW Deep Blue inboard motor and one high-capacity lithium battery and were built by Song Lo Shipbuilding Company.
E-workboat from France

Marinas, ports and harbors around the world are looking for ways to lower operating expenses and their carbon footprint. The brand-new ZenPro 580, a 19-foot workboat purpose-built for electric propulsion, is making it easy. Its lightweight but durable aluminum hull and Hypalon tube design weighs just 772 lbs, which allows the 50 kw Deep Blue outboard and lithium battery (i3-type) to propel the RIB at up to 25 knots. The open, flexible deck design makes the ZenPro ideally suited for carrying up to eight passengers or carrying equipment for use as a harbor patrol and marina support platform. The ZenPro 580 is built in France by the electric boating experts at Naviwatt.

Advantage: electric

Torqeedo doesn’t sell components – instead we provide a complete, integrated and proven electric propulsion system for your commercial project. With up to a 9-year battery capacity warranty* and worldwide service, now is the time to lower operating costs with a high-tech electric mobility system from Torqeedo.

* Up to 4,000 cycles of charging, depending on charging, driving and climate conditions.

Save 100% of your gasoline or diesel costs
+ Instead, spend a fraction of saved costs on electricity and battery write-off
+ Reduce maintenance costs
+ Enjoy high reliability

If you are out on the water 100 days a year or more, you may save money by going electric.

...and protecting our waters and atmosphere is a bonus.

We will be pleased to provide you with a calculation adapted to your requirements.

info@torqeedo.com
The power of Deep Blue: high-capacity lithium batteries with technology by BMW i

Industry-leading energy density, the latest automotive technology and highest safety standards

BMW i high-capacity batteries are available for boats. This technology, proven in thousands of BMW’s innovative i3 and i8 automobiles, has been integrated into the Deep Blue system by Torqeedo. The BMW i8 battery is ideal for boats where space is at a premium.

The latest generation of automotive battery cells:
- Very high energy density
- Prismatic cell design allows efficient cooling, a compact form, even temperature distribution within the battery and an extremely rugged structure
- Robust protective aluminum housing with safety vent
- From the automated production process of Samsung SDI, a leading manufacturer of lithium battery cells

Pressure safety disc: The battery is waterproof to IP67. In the unlikely event of excess pressure developing in a cell, the prismatic cells can release the excess pressure through a valve. This is a significant safety advantage over foil-welded cells and pouch cells. The pressure safety disc allows gases to escape and ensures the battery stays waterproof in normal operation.

New for 2019 31% more energy in the same space

Laser-welded cell connections:
Over a larger surface and therefore stronger and more powerful than conventional spot-welded cell connections.
Automated module production:
- Prismatic cells have many advantages. However, they must be assembled extremely accurately in a very robust frame for a long service life. Otherwise charging and discharging would, over time, lead to the cells expanding and collapsing very slightly and cause them to age prematurely.
- The fully automated module production at BMW in Dingolfing has set the standard in high-precision and extremely robust battery modules.
- The very rugged design is ideal for boat applications that place high demands on shock resistance.

Battery management system (BMS) at module and battery levels:
- State-of-the-art BMS technology
- Developed to ASIL C standards as used in the automotive industry for maximum safety
- Qualification and acceptance testing at a far higher level than is typical in the boating industry

Compressor cooling: cools the battery to ensure high performance and a long service life even in high ambient and water temperatures – in all climate zones anywhere in the world.

Power and data connections from the battery to the Deep Blue system

Professional safety

The insulation monitor constantly monitors that the voltage from all 360 V components is completely isolated from the boat – not just for individual system components but for all of them. If damage is detected, e.g. to the cable insulation, the system will issue an alert. In the event of dangerous insulation failure, the system will be shut down.

Automotive industry-level battery safety: The first lithium batteries for the marine industry with the advanced quality standards of the automotive sector are the result of Torqeedo’s collaboration with established battery manufacturers. Integrating a battery into a drive system and the associated safety concept alone requires considerable effort that can only be achieved by working together with the battery manufacturer.

All components are waterproof: Components that were not specifically developed for boats are not always waterproof. All the components of a high-power system on a boat must be waterproof to guarantee safe operation. That is why all of our components are waterproofed and, in some cases, are further protected with water sensors.

Battery venting: In the unlikely event that the redundant safety mechanisms of the battery fail, the battery cells can reduce their temperature and pressure via a pressure valve. While batteries are installed in electric cars in such a way that they can discharge battery gases directly onto the road, on electric boats the gases must be channelled safely off the vessel. We developed the first safe venting system for boats for the Deep Blue system.

Battery damping: All components on fast and seagoing boats are subject to constant high levels of shock that exceed shock levels on the road – in some cases over 12 g of acceleration force. The same holds true when trailering the boat. Since batteries and battery electronics are not designed for these constant impacts, they need their own damping system on boats (in addition to the damping mechanisms within the battery). Torqeedo is the only company in the world that provides this for maritime use.
Two powerhouse options

New for 2019

Deep Blue battery (i3-type)

Latest battery technology from the BMW i3 series: high energy density, long service life, robust and built to the highest standards of quality and safety. Its capacity has been upped from 30.5 kWh to 40 kWh for 2019, paving the way for all sorts of new Deep Blue applications.

Deep Blue battery (i8-type)

A single 10.0 kWh Deep Blue battery can power a 25 kW Deep Blue motor, bringing system weight to under 560 lbs – perfect for smaller vessels or those with narrow hulls. Thanks to special cell technology, many applications don’t require active cooling.

Technical data

<table>
<thead>
<tr>
<th></th>
<th>i3-type</th>
<th>i8-type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal voltage</td>
<td>360 V</td>
<td>355 V</td>
</tr>
<tr>
<td>Max. continuous performance</td>
<td>55 kW</td>
<td>25 kW</td>
</tr>
<tr>
<td>Capacity</td>
<td>40.0 kWh</td>
<td>10.0 kWh</td>
</tr>
<tr>
<td>Weight</td>
<td>613 lbs</td>
<td>214 lbs</td>
</tr>
<tr>
<td>Dimensions</td>
<td>65.4 x 38 x 6.9 inches</td>
<td>57.5 x 12 (9.5) x 13 inches</td>
</tr>
</tbody>
</table>
Choose the right genset

Economical auxiliary power

Torqeedo’s HVDC converter generators supply DC power directly to the Deep Blue system without the inefficiencies that limit standard generators, providing long-range motoring and efficient backup power for serial hybrid systems. The converter generators eliminate the fixed ratio between rotational speed, power and voltage output.

Integrated into the information, safety and energy management system of the Deep Blue Hybrid, the generators produce any combination of power and voltage as required, adopted to individual settings.

25 kW Range Extender

20 kW Range Extender

Technical data

<table>
<thead>
<tr>
<th></th>
<th>Deep Blue generator 25 kW</th>
<th>Deep Blue generator 20 kW</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Continuous power</strong></td>
<td>25 kW</td>
<td>20 kW</td>
</tr>
<tr>
<td><strong>Max. rpm of diesel engine</strong></td>
<td>2,200</td>
<td>3,600</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>1,058 lbs</td>
<td>595 lbs</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>43.6 x 29.4 x 27.7 inches</td>
<td>39.4 x 23.6 x 24.4 inches</td>
</tr>
<tr>
<td><strong>Benefits</strong></td>
<td>Low noise, High efficiency, Less vibration</td>
<td>Compact size, Light weight</td>
</tr>
</tbody>
</table>
Accessories

From bag sets to batteries, enhance your boating experience with Torqeedo accessories

+ Add a spare battery for additional range
+ Charge via solar, 12 V onboard supply or plug in to shore power
+ Upgrade to a practical, ergonomic and Bluetooth-equipped throttle
+ Efficient propellers for high speed or more thrust
The full range of Torqeedo accessories is available at www.torqeedo.com
Remote throttle

Instead of using the tiller, you can control your Travel or Cruise motor with the throttle located 5 or 16 feet away. It comes with an onboard computer display, fully variable forward and reverse and two different lengths of data cable.

Premium throttles

Our premium throttles offer the right solution for every application, whether for sailboats or on motorboats – ergonomic, strong and functional. All premium throttles come with Bluetooth built in for simple integration of Torqeedo’s TorqTrac smartphone app.

Side-mount sail  Side-mount motor  Top-mount single  Top-mount twin

Controls

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Side-mount sail  Side-mount motor  Top-mount single  Top-mount twin

Controls

Accessories
Chartplotter gateway

Link external devices to Torqeedo drive systems. Small gateway plugs in quickly and easily, and allows NMEA-2000 devices to access and display key motor and battery information.

Spare Ultralight batteries

Extend your range with a second battery on board. Available in 320 Wh or 915 Wh capacity.

Spare Travel batteries

Extend your range with a second battery on board. Available in 530 Wh or 915 Wh capacity.

Power supply
Accessories

Charging

Sunfold 50
This lightweight solar panel delivers lots of clean solar energy and can be easily folded for storage. Suitable for all Travel models from 2015.

Solar charge controller for Power 24-3500
Integrated MPPT controls solar charging, maximizing energy yield and overall efficiency.

Fast Charger 2900 W for Power 48-5000
Specifically developed for fast charging the Power 48-5000, this 2,900 W charger can fully charge a single battery in just under two hours.

New for 2019
Propellers

Spare propeller
Choose a spare standard prop or a version with higher top-end speed or more thrust at low rpm.

Folding propellers for Cruise 2.0/4.0/10.0 FP
Low drag when under sail, powerful propulsion while motoring.

You can find more information about all our accessories and a detailed propeller guide on our website
www.torqeedo.com
### Outboards and pods ≤ 20 HP equivalent

<table>
<thead>
<tr>
<th></th>
<th>ULTRALIGHT 403 A/AC</th>
<th>TRAVEL 503</th>
<th>TRAVEL 1003 (C)</th>
<th>TRAVEL 1003 C</th>
<th>CRUISE 2.0 T/R</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Input power in W</strong></td>
<td>400</td>
<td>500</td>
<td>1,000</td>
<td>1,100</td>
<td>2,000</td>
</tr>
<tr>
<td><strong>Propulsive power in W</strong></td>
<td>180</td>
<td>240</td>
<td>480</td>
<td>540</td>
<td>1,120</td>
</tr>
<tr>
<td><strong>Comparable gasoline outboard (shaft power)</strong></td>
<td>1 HP</td>
<td>1.5 HP</td>
<td>3 HP</td>
<td>3 HP</td>
<td>5 HP</td>
</tr>
<tr>
<td><strong>Comparable gasoline outboard (thrust)</strong></td>
<td>2 HP</td>
<td>2 HP</td>
<td>4 HP</td>
<td>4 HP</td>
<td>6 HP</td>
</tr>
<tr>
<td><strong>Comparable diesel inboard (shaft power)</strong></td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Comparable diesel inboard (thrust)</strong></td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Maximum overall efficiency in %</strong></td>
<td>45</td>
<td>48</td>
<td>48</td>
<td>49</td>
<td>56</td>
</tr>
<tr>
<td><strong>Static thrust in lbs</strong></td>
<td>33</td>
<td>40</td>
<td>68</td>
<td>49</td>
<td>56</td>
</tr>
<tr>
<td><strong>Integrated battery</strong></td>
<td>320 (A) / 915 (AC) Wh Li-Ion</td>
<td>320 Wh Li-Ion</td>
<td>530 / 915 (C) Wh Li-Ion</td>
<td>915 Wh Li-Ion</td>
<td>-</td>
</tr>
<tr>
<td><strong>Nominal voltage in V</strong></td>
<td>29.6</td>
<td>29.6</td>
<td>29.6</td>
<td>29.6</td>
<td>24</td>
</tr>
<tr>
<td><strong>Final charging voltage in V</strong></td>
<td>33.6</td>
<td>33.6</td>
<td>33.6</td>
<td>33.6</td>
<td>-</td>
</tr>
<tr>
<td><strong>Total weight in lbs</strong></td>
<td>19.4 (A) / 24.3 (AC)</td>
<td>28.9 (S) / 30.2 (L)</td>
<td>Travel 1003: 31.3 (S) / 32.6 (L)</td>
<td>Travel 1003 C: 32.8 (S) / 34.2 (L)</td>
<td>T: 38.6 (S) / 41.0 (L)</td>
</tr>
<tr>
<td><strong>Motor weight without battery, in lbs</strong></td>
<td>11.0</td>
<td>19.6 (S) / 20.9 (L)</td>
<td>19.6 (S) / 20.9 (L)</td>
<td>19.6 (S) / 20.9 (L)</td>
<td>R: 33.7 (S) / 35.7 (L)</td>
</tr>
<tr>
<td><strong>Weight of integrated battery, in lbs</strong></td>
<td>8.4 (A) / 13.2 (AC)</td>
<td>9.3</td>
<td>11.7 / 13.2 (C)</td>
<td>13.2</td>
<td>-</td>
</tr>
<tr>
<td><strong>Shaft length in inches</strong></td>
<td>19</td>
<td>24.6 (S) / 29.5 (L)</td>
<td>24.6 (S) / 29.5 (L)</td>
<td>24.6 (S) / 29.5 (L)</td>
<td>24.6 (S) / 29.4 (L)</td>
</tr>
<tr>
<td><strong>Standard propeller</strong></td>
<td>v10/p350</td>
<td>v9/p790</td>
<td>v9/p790</td>
<td>v10/p1100</td>
<td>v13/p4000</td>
</tr>
<tr>
<td><strong>Alternative propeller options</strong></td>
<td>v8/p350</td>
<td>-</td>
<td>-</td>
<td>v10/p1100 weedless</td>
<td>v19/p4000</td>
</tr>
<tr>
<td><strong>Maximum propeller speed in rpm at full load</strong></td>
<td>1,200</td>
<td>875</td>
<td>1,125</td>
<td>1,450</td>
<td>1,300</td>
</tr>
<tr>
<td><strong>Control</strong></td>
<td>Throttle</td>
<td>Tiller</td>
<td>Tiller</td>
<td>Tiller</td>
<td>Tiller/throttle</td>
</tr>
<tr>
<td><strong>Steering</strong></td>
<td>Connects to kayak steering, lockable</td>
<td>360° lockable</td>
<td>360° lockable</td>
<td>+/−60° lockable</td>
<td>360° lockable</td>
</tr>
<tr>
<td><strong>Stepless forward/reverse drive</strong></td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td><strong>Integrated onboard computer with display</strong></td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
</tbody>
</table>

*Torqeedo static thrust measurement is based on internationally accepted ISO standards. Static thrust figures for conventional trolling motors are typically measured differently, which results in higher values. To compare Torqeedo static thrust data with conventional trolling motors, add approximately 50% to the Torqeedo static thrust values.*
<table>
<thead>
<tr>
<th></th>
<th>CRUISE 4.0 T/R</th>
<th>CRUISE 10.0 T/R</th>
<th>TWIN CRUISE 2.0 R</th>
<th>TWIN CRUISE 4.0 R</th>
<th>CRUISE 2.0 FP</th>
<th>CRUISE 4.0 FP</th>
<th>CRUISE 10.0 FP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input power in W</td>
<td>400</td>
<td>10,000</td>
<td>4,000</td>
<td>8,000</td>
<td>2,000</td>
<td>4,000</td>
<td>10,000</td>
</tr>
<tr>
<td></td>
<td>2,240</td>
<td>5,600</td>
<td>2,240</td>
<td>4,480</td>
<td>1,120</td>
<td>2,240</td>
<td>5,600</td>
</tr>
<tr>
<td></td>
<td>9.9 HP</td>
<td>25 HP</td>
<td>8 HP</td>
<td>15 HP</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>56</td>
<td>56</td>
<td>12 HP</td>
<td>20 HP</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>189</td>
<td>up to 405</td>
<td>24</td>
<td>56</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>48</td>
<td>24</td>
<td>48</td>
<td>378</td>
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<tr>
<td></td>
<td>48</td>
<td>24</td>
<td>48</td>
<td>115</td>
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<td>-</td>
</tr>
<tr>
<td></td>
<td>56</td>
<td>230</td>
<td>56</td>
<td>189</td>
<td>up to 405</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>24.6 (S) / 29.4 (L)</td>
<td>15.2 (S) / 20.2 (L) / 25.2 (XL)</td>
<td>24.6 (S) / 29.4 (L)</td>
<td>24.6 (S) / 29.4 (L)</td>
<td>-</td>
<td>-</td>
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<td>v20/p4000</td>
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<td>Tiller/throttle</td>
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<td>360° lockable</td>
<td>+/- 45°</td>
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<td>Manual, with impact protection</td>
<td>Manual, with impact protection</td>
<td>Provision to connect to standard remote steering; lockable</td>
<td>Provision to connect to standard remote steering; lockable</td>
<td>-</td>
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<tr>
<td></td>
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<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
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</tr>
</tbody>
</table>

*(S) short version
(L) long version
(XL) extra-long version
### Drives and Batteries

#### Ultralight
- **1405-00 Ultralight 403A**  
  Ultralight outboard, 1 HP equivalent, with 320 Wh high-performance lithium battery, including charger, throttle, onboard computer, GPS-based range calculation and emergency magnetic kill switch  
  **MSRP in USD**: $1,799.00
- **1407-00 Ultralight 403 AC**  
  Ultralight outboard, 1 HP equivalent, with 915 Wh high-performance lithium battery, including charger, throttle, onboard computer, GPS-based range calculation and emergency magnetic kill switch  
  **MSRP in USD**: $2,299.00
- **1416-00 Spare battery Ultralight 403 (A), 320 Wh**  
  High-performance lithium battery with integrated GPS receiver, 320 Wh, 29.6 V, 11 Ah. For all Ultralight models (1404-00, 1405-00, 1406-00, 1407-00)  
  **MSRP in USD**: $599.00
- **1417-00 Spare battery Ultralight 403 (A/AC), 915 Wh**  
  High-performance lithium battery with integrated GPS receiver, 915 Wh, 29.6 V, 31 Ah. For all Ultralight models (1404-00, 1405-00, 1406-00, 1407-00)  
  **MSRP in USD**: $899.00

#### Travel
- **1140-20 Travel 503 S**  
  High-efficiency outboard with integrated 320 Wh high-performance lithium battery, 1.5 HP equivalent, including onboard computer with GPS-based range calculation, charger, emergency magnetic kill switch, short shaft  
  **MSRP in USD**: $1,699.00
- **1141-20 Travel 503 L**  
  As part No. 1140-00, but with long shaft  
  **MSRP in USD**: $1,699.00
- **1142-20 Travel 1003 S**  
  High-efficiency outboard with integrated 530 Wh high-performance lithium battery, 3 HP equivalent, including onboard computer with GPS-based range calculation and charger, emergency magnetic kill switch, short shaft  
  **MSRP in USD**: $1,999.00
- **1143-20 Travel 1003 L**  
  As part No. 1142-00, but with long shaft  
  **MSRP in USD**: $1,999.00
- **1149-00 Travel 1003 CS**  
  High-efficiency outboard with integrated 915 Wh high-performance lithium battery, 3 HP equivalent, including onboard computer with GPS-based range calculation and charger, emergency magnetic kill switch, short shaft  
  **MSRP in USD**: $2,499.00
- **1150-00 Travel 1003 CL**  
  As part No. 1149-00, but with long shaft  
  **MSRP in USD**: $2,499.00
- **1151-00 Travel 1103 CS**  
  High-efficiency outboard with integrated 915 Wh high-performance lithium battery, 3 HP equivalent, including onboard computer with GPS-based range calculation and charger, emergency magnetic kill switch, short shaft  
  **MSRP in USD**: $2,699.00
- **1152-00 Travel 1103 CL**  
  As part No. 1151-00, but with long shaft  
  **MSRP in USD**: $2,699.00
- **1148-00 Spare battery Travel 1103/1003/503, 915 Wh**  
  High-performance lithium battery with integrated GPS receiver, 915 Wh, 29.6 V, 31 Ah. For all 503/1003/1103 models  
  **MSRP in USD**: $999.00

#### Cruise
- **1230-00 Cruise 2.0 RS**  
  High-efficiency outboard, 5-6 HP equivalent. Includes throttle, integrated onboard computer with GPS-based range calculation, 4 AWG cable set (10 ft) including fuse and main switch, short shaft version  
  **MSRP in USD**: $3,999.00
- **1231-00 Cruise 2.0 RL**  
  As part No. 1230-00, but with long shaft  
  **MSRP in USD**: $3,999.00
- **1232-00 Cruise 4.0 RS**  
  High-efficiency outboard, 8-9.9 HP equivalent. Includes connection to remote steering, throttle, integrated onboard computer with GPS-based range calculation, 4 AWG cable set (10 ft) including fuse and main switch, short shaft version  
  **MSRP in USD**: $4,499.00
- **1233-00 Cruise 4.0 RL**  
  As part No. 1232-00, but with long shaft  
  **MSRP in USD**: $4,499.00
- **1240-00 Cruise 10.0 RS**  
  High-efficiency outboard, 20 HP equivalent. Includes connection to remote steering, throttle, integrated onboard computer with GPS-based range calculation, 00 AWG cable set (15 ft) including fuse and main switch, plug connector, short shaft version  
  **MSRP in USD**: $8,999.00
- **1241-00 Cruise 10.0 RL**  
  As part No. 1240-00, but with long shaft  
  **MSRP in USD**: $8,999.00
- **1242-00 Cruise 10.0 RXL**  
  As part No. 1240-00, but with extra-long shaft  
  **MSRP in USD**: $8,999.00
- **1243-00 Cruise 10.0 TS**  
  High-efficiency outboard, 20HP equivalent. With tiller steering, integrated onboard computer with GPS-based range calculation, 00 AWG cable set (15 ft) including fuse and main switch, plug connector, short shaft version  
  **MSRP in USD**: $9,599.00
- **1244-00 Cruise 10.0 TL**  
  As part No. 1243-00, but with long shaft  
  **MSRP in USD**: $9,599.00
- **1245-00 Cruise 10.0 TLX**  
  As part No. 1243-00, but with extra-long shaft  
  **MSRP in USD**: $9,599.00
- **1250-00 Cruise 2.0 FP**  
  High-efficiency pod motor (fixed position), 5-6 HP equivalent. Includes throttle, integrated onboard computer with GPS-based range calculation, 4 AWG cable set (10 ft) including fuse, main switch and propeller  
  **MSRP in USD**: $4,549.00

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**California customers:** Warning applies to all products on page 70.

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CAUTION: California Proposition 65 Regulation. **WARNING** Cancer and Reproductive Harm. www.P65Warnings.ca.gov
<table>
<thead>
<tr>
<th>Part No.</th>
<th>Product</th>
<th>Description</th>
<th>MSRP in USD</th>
</tr>
</thead>
<tbody>
<tr>
<td>1251-00</td>
<td>Cruise 4.0 FP</td>
<td>High-efficiency pod motor, fixed position, 8-9.9 HP equivalent. Includes throttle, integrated onboard computer with GPS-based range calculation, 4 AWG cable set (10 ft) including fuse, main switch and propeller</td>
<td>$ 4,999.00</td>
</tr>
<tr>
<td>1252-00</td>
<td>Cruise 10.0 FP</td>
<td>High-efficiency pod motor (fixed position), 20 HP equivalent. Includes throttle, integrated onboard computer with GPS-based range calculation, 00 AWG cable set (15 ft) including fuse and main switch, plug connector and propeller</td>
<td>$ 8,999.00</td>
</tr>
<tr>
<td>1253-00</td>
<td>Cruise 10.0 FP SD-Mount</td>
<td>As part No. 1252-00, specially for the mounting on a saildrive foundation</td>
<td>$ 8,999.00</td>
</tr>
<tr>
<td>1905-00</td>
<td>Anode set Al Cruise 2.0/4.0 R/T/FP</td>
<td>Anode for operating 2.0/4.0 models with standard propeller. Attachment to motor shaft, made from aluminum, for use in fresh water</td>
<td>$ 34.99</td>
</tr>
<tr>
<td>1939-00</td>
<td>Anode set Zn Cruise 2.0/4.0 R/T/FP</td>
<td>Anode for operating 2.0/4.0 models with standard propeller. Attachment to motor shaft, made from zinc, for use in salt water</td>
<td>$ 29.00</td>
</tr>
<tr>
<td>1964-00</td>
<td>Anode set Al Cruise 2.0/4.0 FP</td>
<td>Anode set for Cruise 2.0/4.0 FP models with folding propeller (part No. 1962-00). Consists of 2 ring anodes for attachment to the propeller and 1 anode for attachment to the pylon, made from aluminum, for use in fresh water</td>
<td>$ 69.00</td>
</tr>
<tr>
<td>1965-00</td>
<td>Anode set Zn Cruise 2.0/4.0 FP</td>
<td>As part No. 1964-00, but made from zinc, for use in salt water</td>
<td>$ 69.00</td>
</tr>
<tr>
<td>1935-00</td>
<td>Anode set Al Cruise 10.0 R</td>
<td>Anode set made from aluminum for use with Cruise 10.0 R in fresh water, consists of 1 shaft anode, 2 half-ring anodes, 2 ring anodes</td>
<td>$ 89.00</td>
</tr>
<tr>
<td>1936-00</td>
<td>Anode set Zn Cruise 10.0 R</td>
<td>As part No. 1935-00, but made from zinc, for use in salt water</td>
<td>$ 89.00</td>
</tr>
<tr>
<td>1947-00</td>
<td>Anode set Al Cruise 10.0 FP</td>
<td>Anode set for Cruise 10.0 FP models with folding propeller (with part No. 1945-00). Consists of 2 anodes for attachment to the propeller, 2 ring anodes and 1 anode for attachment to the pylon, made from aluminum, for use in fresh water</td>
<td>$ 119.00</td>
</tr>
<tr>
<td>1948-00</td>
<td>Anode set Zn Cruise 10.0 FP</td>
<td>As part No. 1947-00, but made from zinc, for use in salt water</td>
<td>$ 119.00</td>
</tr>
</tbody>
</table>

### Power

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Product</th>
<th>Description</th>
<th>MSRP in USD</th>
</tr>
</thead>
<tbody>
<tr>
<td>2106-00</td>
<td>Power 24-3500 NEW</td>
<td>High-performance lithium battery, 3,475 Wh, rated voltage 24.4 V, weight 55.8 lbs, with innovative battery management system including numerous protective functions, waterproof to IP67; includes: cable for communication with Cruise system</td>
<td>$ 2,999.00</td>
</tr>
<tr>
<td>2104-00</td>
<td>Power 48-5000</td>
<td>High-performance lithium battery, 5,000 Wh, rated voltage 44.4 V, weight 81.6 lbs, with innovative battery management system incl. safety functions; waterproof to IP67; includes: cable for communication with T/Q, CAN</td>
<td>$ 5,199.00</td>
</tr>
<tr>
<td>2213-00</td>
<td>Charger 650 W for Power 48-5000</td>
<td>Charge current 13 A, charges the Power 48-5000 from 0% to 100% in a maximum of 10 hours, waterproof IP65</td>
<td>$ 899.00</td>
</tr>
<tr>
<td>2206-20</td>
<td>Charger 350 W for Power 24-3500 (Power 26-104)</td>
<td>Charge current 10 A, charges the Power 24-3500 (Power 26-104) from 0 to 100% in a maximum of 11 hours, waterproof to IP65</td>
<td>$ 599.00</td>
</tr>
<tr>
<td>2210-00</td>
<td>Fast charger 1,700 W for Power 24-3500 (Power 26-104)</td>
<td>Charge current 60 A, charges the Power 24-3500 (Power 26-104) from 0 to 100% in &lt; 2 hours at 240 V, waterproof to IP65, 700 W at 110 V</td>
<td>$ 1,999.00</td>
</tr>
<tr>
<td>2212-00</td>
<td>Fast charger 2900 W for Power 48-5000 NEW</td>
<td>Charge current 50 A, charges the Power 48-5000 from 0 to 100% in &lt; 2 hours, waterproof to IP65</td>
<td>$ 2,199.00</td>
</tr>
<tr>
<td>2304-00</td>
<td>On/off switch for Power 24-3500 (Power 26-104)</td>
<td>Switch for activating/deactivating the Power 24-3500, IP65, with LED on/off status display; the on/off switch is required when the Power 24-3500 (Power 26-104) is used without a Cruise system</td>
<td>$ 99.00</td>
</tr>
<tr>
<td>2215-00</td>
<td>On/off switch for Power 48-5000 in usage without a Torqeedo motor</td>
<td>Switch for activating/deactivating the Power 48-5000 in usage without a Torqeedo motor</td>
<td>$ 119.00</td>
</tr>
<tr>
<td>2211-00</td>
<td>Fast solar charge controller for Power 24-3500 (Power 26-104)</td>
<td>Enables the Power 24-3500 (Power 26-104) to be charged with solar energy. Solar modules not included. Integrated MPPT maximizes the energy yield of the solar modules during charging, very high level of efficiency</td>
<td>$ 1,299.00</td>
</tr>
</tbody>
</table>

### Accessories

#### Extras

<table>
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<tr>
<th>Part No.</th>
<th>Product</th>
<th>Description</th>
<th>MSRP in USD</th>
</tr>
</thead>
<tbody>
<tr>
<td>1925-00</td>
<td>Travel bags (2-piece)</td>
<td>For transporting / storing Travel 503/1003/1103 models. Includes 2 bags – one bag for the motor (including tiller and accessories) and one bag for the battery.</td>
<td>$ 229.00</td>
</tr>
<tr>
<td>1926-00</td>
<td>Travel battery bag</td>
<td>For transporting and storing Travel 503/1003/1103 batteries.</td>
<td>$ 79.99</td>
</tr>
<tr>
<td>1931-00</td>
<td>Protective cover Travel</td>
<td>For Travel 503/1003/1103 Protects the motor cable from UV fading and the shaft head from dirt. Water-resistant and breathable</td>
<td>$ 74.99</td>
</tr>
<tr>
<td>1924-00</td>
<td>TorqTrac smartphone app for Travel 503/1003/1103</td>
<td>Smartphone app for Travel 503/1003/1103, Cruise T/R as well as Ultralight models. Allows larger display of the onboard computer showing range on map and with many other benefits. Requires a Bluetooth Low Energy®-capable smartphone</td>
<td>$ 149.00</td>
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## Ordering informations

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<th>Product</th>
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<td><strong>Charging equipment</strong></td>
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<tr>
<td>1132-00</td>
<td>Sunfold 50</td>
<td>Foldable 50 W solar panel, convenient size, highly efficient, plug &amp; play connections for waterproof charging of the Travel 503/1003 models and Ultralight 403 and 403 A/AC, only compatible with battery part No. 1146-00, 1147-00, 1148-00, 1416-00 and 1417-00</td>
<td>$749.00</td>
</tr>
<tr>
<td>1133-00</td>
<td>Charger 90 W for Travel and Ultralight batteries</td>
<td>90 watt charger for electric sockets rated 100-240 V and 50-60 Hz. For use only with batteries part No. 1146-00, 1147-00, 1148-00, 1416-00 and 1417-00</td>
<td>$129.99</td>
</tr>
<tr>
<td>1127-00</td>
<td>Charger 40 W for Travel and Ultralight batteries</td>
<td>40 watt charger for electric sockets rated 100-240 V and 50-60 Hz. For use only with Travel 503/1003 and Ultralight 403 batteries</td>
<td>$69.99</td>
</tr>
<tr>
<td>1128-00</td>
<td>12/24 V charger cable for Travel 503/1003/1103 and Ultralight 403</td>
<td>Allows the Travel 503/1003/1103 models and the Ultralight 403, 403 A/AC to be charged from a 12/24 V power source</td>
<td>$54.99</td>
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<tr>
<td><strong>Propellers and fins</strong></td>
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<tr>
<td>1912-00</td>
<td>Spare propeller v10/p350</td>
<td>For Ultralight models 40, 403 and 403 A/AC (Ø 200 mm)</td>
<td>$99.99</td>
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<tr>
<td>1972-00</td>
<td>Spare propeller v10/p1100</td>
<td>For Travel 1103 C, weedless</td>
<td>$99.99</td>
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<tr>
<td>1973-00</td>
<td>Spare propeller v10/p1100</td>
<td>Standard propeller for Travel 1103 C</td>
<td>$99.99</td>
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<tr>
<td>1917-00</td>
<td>Spare propeller v9/p790</td>
<td>For models Travel 1003 (C) and Travel 503 from 2014 (Ø 292 mm)</td>
<td>$99.99</td>
</tr>
<tr>
<td>1915-00</td>
<td>Spare propeller v8/p350</td>
<td>For Cruise 2.0/4.0 models manufactured from 2009 to 2016, slower speed, lower effectiveness, greater thrust (Ø 300 mm)</td>
<td>$99.99</td>
</tr>
<tr>
<td>1916-00</td>
<td>Spare propeller v19/p4000</td>
<td>For Cruise 2.0/4.0 models manufactured from 2009 to 2016, faster, more effective, weedless (Ø 300 mm)</td>
<td>$99.99</td>
</tr>
<tr>
<td>1923-00</td>
<td>Spare propeller v30/p4000</td>
<td>High-speed propeller for Cruise 2.0/4.0 R/T models manufactured from 2009 to 2016, for planing with light boats (Ø 320 mm)</td>
<td>$219.99</td>
</tr>
<tr>
<td>1953-00</td>
<td>Spare propeller v30/p4000</td>
<td>High-speed propeller for Cruise spline shaft 2.0/4.0 models manufactured from 2017 onwards, for planing with light boats (Ø 320 mm)</td>
<td>$219.00</td>
</tr>
<tr>
<td>1954-00</td>
<td>Spare propeller v13/p4000</td>
<td>For Cruise 2.0/4.0 models manufactured from 2017 onwards, faster, more efficient, weedless (Ø 300 mm)</td>
<td>$109.00</td>
</tr>
<tr>
<td>1955-00</td>
<td>Spare propeller v20/p4000</td>
<td>For Cruise 2.0/4.0 models manufactured from 2017 onwards, for planing with light boats (Ø 320 mm)</td>
<td>$109.00</td>
</tr>
<tr>
<td><strong>Cable, control, steering</strong></td>
<td></td>
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<tr>
<td>1970-00</td>
<td>Ultralight Kayak bracket</td>
<td>Optimized kayak mount for Ultralight models 403. For part No. 1404-00 to 1407-00</td>
<td>$249.00</td>
</tr>
<tr>
<td>1971-00</td>
<td>Ultralight mounting ball</td>
<td>Mounting ball for Ultralight models 403 A/AC. For part No. 1404-00 to 1407-00</td>
<td>$299.00</td>
</tr>
<tr>
<td>1918-00</td>
<td>Throttle for Travel 503/1003/1103 (C) (Spare part for Cruise models with part No. 1209-00 to 1223-00)</td>
<td>Enables operation with throttle instead of tillers for models Travel 503/1003/1103, including integrated display with information on battery status, GPS-based speed and remaining range calculation, including 5 ft. and 16 ft. connecting cables between motor and throttle and magnetic kill switch. Can also be used as a spare part for Cruise and Ultralight models</td>
<td>$299.99</td>
</tr>
<tr>
<td>1921-00</td>
<td>Cable extension for throttle, 5 ft.</td>
<td>Extension cable for Travel 503/1003/1103, Ultralight and Cruise models, allows a greater distance between throttle / tiller and motor</td>
<td>$34.99</td>
</tr>
<tr>
<td>1922-00</td>
<td>Cable extension for throttle, 16 ft.</td>
<td>As part No. 1921-00, 16 ft. length</td>
<td>$49.99</td>
</tr>
<tr>
<td>1949-00</td>
<td>Throttle Sail side mounting</td>
<td>Electronic throttle for sailboats, with on/off switch, emergency magnetic kill switch and 1.28” display</td>
<td>$1,399.00</td>
</tr>
<tr>
<td>1950-00</td>
<td>Throttle side mounting</td>
<td>Electronic throttle for motorboats, with power trim and tilt, key switch, magnetic kill switch and 1.28” display</td>
<td>$1,399.00</td>
</tr>
<tr>
<td>1951-00</td>
<td>Throttle top mounting</td>
<td>Electronic throttle, with power trim and tilt, key switch, magnetic kill switch and 1.28” display</td>
<td>$1,399.00</td>
</tr>
<tr>
<td>Part No.</td>
<td>Product Description</td>
<td>Description</td>
<td>MSRP in USD</td>
</tr>
<tr>
<td>---------</td>
<td>--------------------</td>
<td>-------------</td>
<td>-------------</td>
</tr>
<tr>
<td>1952-00</td>
<td>Dual throttle</td>
<td>Electronic throttle, with power trim and tilt,</td>
<td>$1,699.00</td>
</tr>
<tr>
<td></td>
<td>top mounting</td>
<td>key switch, magnetic kill switch and 1.28&quot; display</td>
<td></td>
</tr>
<tr>
<td>1956-00</td>
<td>Cable extension</td>
<td>8-pin cable for a longer distance between the compo-</td>
<td>$89.00</td>
</tr>
<tr>
<td></td>
<td>for throttle, 9.8 ft.</td>
<td>nents. Only for part No. 1949-00, 1950-00, 1951-00 and 1952-00. 9.8 ft. length</td>
<td></td>
</tr>
<tr>
<td>1957-00</td>
<td>Cable extension</td>
<td>As part No.1956-00, 16 ft. length</td>
<td>$99.00</td>
</tr>
<tr>
<td></td>
<td>for throttle, 16 ft.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1958-00</td>
<td>Cable extension</td>
<td>90° angled-end 8-pin extension cable for rigging in</td>
<td>$69.00</td>
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<tr>
<td></td>
<td>for throttle, 19.7 in., angled-</td>
<td>tight spaces. Only for part No. 1949-00, 1950-00, 1951-00 and 1952-00. 19.7 in. length</td>
<td></td>
</tr>
<tr>
<td>1919-00</td>
<td>Long tiller arm</td>
<td>23.6 in. tiller tube extension, for all Travel and Cruise T models</td>
<td>$69.99</td>
</tr>
<tr>
<td>1920-00</td>
<td>Motor cable extension</td>
<td>Cable connection extension between battery and motor for the models Ultralight 403, 403 A/AC and Travel 503/1003/1103, allows a greater distance (6.7 ft.) between battery and motor, with waterproof plug connections</td>
<td>$69.99</td>
</tr>
<tr>
<td>1217-00</td>
<td>Twin-Cruise</td>
<td>For twin motors based on Cruise 2.0 R, 4.0 R or 10.0 R models, consisting of aluminum dual throttle with dual information display and 22-inch tie bar</td>
<td>$799.00</td>
</tr>
<tr>
<td>1934-00</td>
<td>Spare cable bridges for Cruise models</td>
<td>Cable set for connecting 2 additional Power 24-3500 (Power 26-104) to a battery bank; includes 1 series bridge cable, 16 in. 2 AWG with post terminal connector, 4 parallel bridge cables, 16 in. 2 AWG with ring terminal connectors and M12 nuts, 2 data cables, 5 ft.</td>
<td>$139.00</td>
</tr>
<tr>
<td>1204-00</td>
<td>Motor cable extension</td>
<td>Extension for Cruise cable set (between motor and battery), 6.7 ft. long, with plug connector</td>
<td>$129.99</td>
</tr>
<tr>
<td>1914-00</td>
<td>Emergency magnetic kill switch</td>
<td>Emergency stop key and immobilizer for Travel, Cruise and Ultralight models</td>
<td>$29.99</td>
</tr>
<tr>
<td>1927-00</td>
<td>Spare parts set Travel</td>
<td>Set for Travel consisting of emergency kill switch, battery attachment pin and steering fixing pin</td>
<td>$49.99</td>
</tr>
<tr>
<td>1940-00</td>
<td>Cable bridges for AGM/gel batteries</td>
<td>Cable bridges for running Cruise 10.0 with AGM/gel batteries. Consists of: 4 cables, 15.7 in, 2 AWG with post terminal connector</td>
<td>$129.00</td>
</tr>
<tr>
<td>2217-00</td>
<td>Gateway-Set</td>
<td>Gateway from TQ-Can to TQ-Bus, On /Off switch for Power 4B-5000, Extension cable TQ-Bus, 16 ft. Needed for Power 4B/5000 applications with Cruise 2.0/4.0/10.0 motors.</td>
<td>$399.00</td>
</tr>
</tbody>
</table>
A global network

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Torqeedo products are engineered and manufactured to the highest quality standards. Torqeedo motors and accessories are designed for long use in difficult conditions and must prove this in testing in continuous use. Every single product is carefully inspected before delivery. Certification to the internationally recognized quality management standard ISO 9001 is a guarantee of the quality of our products.