

# Electric mobility on the water 2020



**Ultralight**



**Travel**



**Cruise**



**Cruise Pods**



**Deep Blue**



**Accessories**





# Ultralight

Quieter and more powerful  
**New for 2020**

The Ultralight family just got a  
new big brother

- + Ultra-quiet direct drive
- + 3 HP equivalent
- + Easy to mount on fishing kayaks
- + Heavy-duty design

**1<sup>HP</sup>**  
equivalent

**3<sup>HP</sup>**  
equivalent

Kayaks  
Canoes  
Very light boats



BENEFITS	MOTOR	SYSTEM	MOUNT	TECHNICAL DATA & PERFORMANCE	APPLICATION
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# Ultralight 1103 C



Ultralight  
403 A/AC

- ⊕ Ultra -quiet direct drive
- ⊕ 3 HP equivalent
- ⊕ Easy to mount on fishing kayaks
- ⊕ Heavy-duty design
- ⊕ On-board computer with real-time display of remaining range, speed, charging status and much more
- ⊕ Long-lasting lithium battery without memory effect with shorter charging time and USB connection
- ⊕ Compatible with the steering system of all popular kayak models
- ⊕ Safe thanks to emergency magnetic kill switch that cuts the motor if you capsize
- ⊕ Waterproof to IP67
- ⊕ Spare battery 915 Wh available

BENEFITS	MOTOR	SYSTEM	MOUNT	TECHNICAL DATA & PERFORMANCE	APPLICATION
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# Ultralight 403 A/AC



- ⊕ Capable of travelling at up to 10 km/h and covering up to 40 km
- ⊕ Only 8.8 kg total weight including battery
- ⊕ On-board computer with real-time display of remaining range, speed, charging status and much more
- ⊕ Long-lasting lithium battery without memory effect with shorter charging time and USB connection
- ⊕ Compatible with the steering system of all popular kayak models
- ⊕ Safe thanks to emergency magnetic kill switch that cuts the motor if you capsize
- ⊕ Waterproof to IP67
- ⊕ Spare battery 915 Wh available

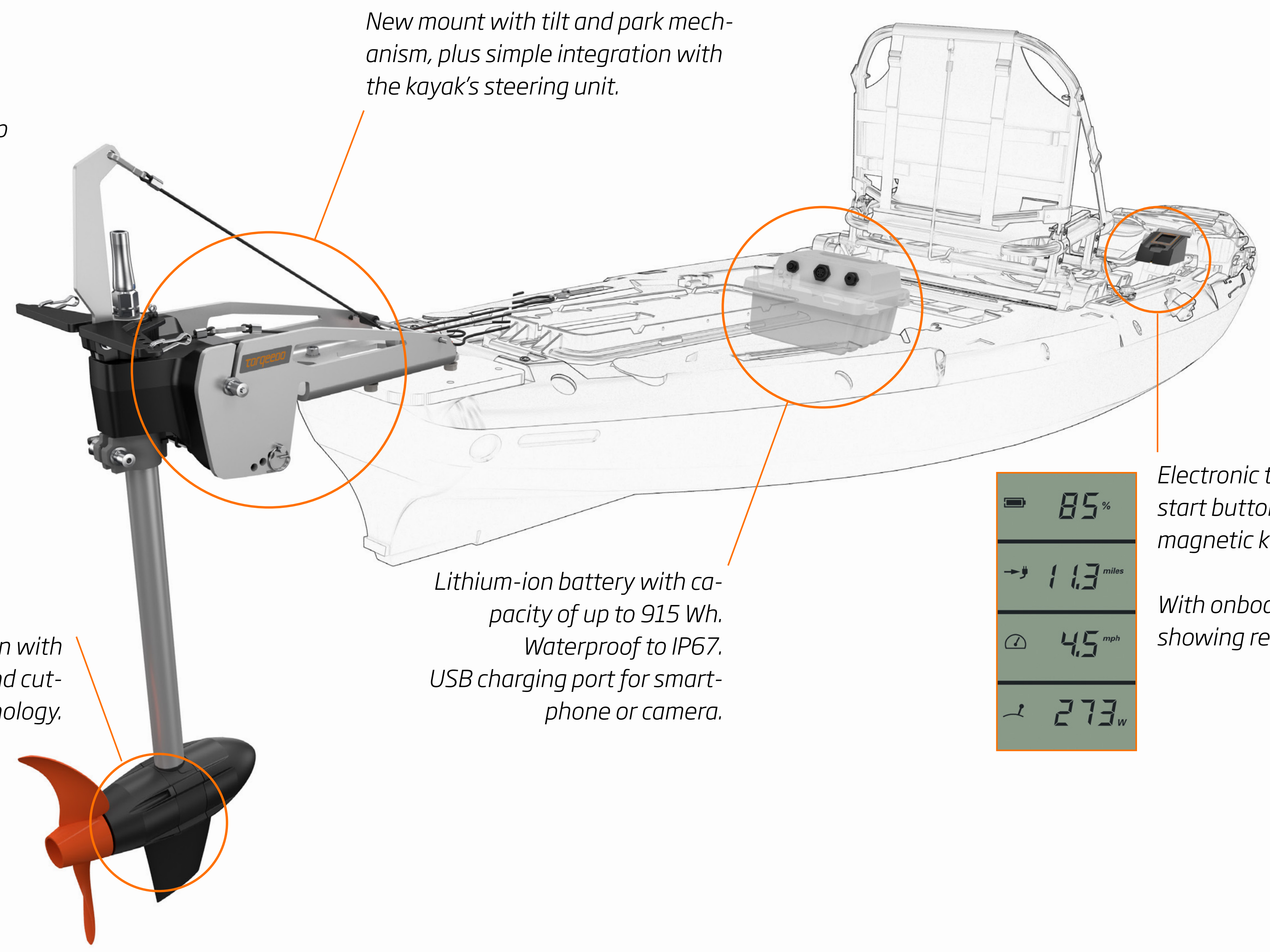
BENEFITS	MOTOR	SYSTEM	MOUNT	TECHNICAL DATA & PERFORMANCE	APPLICATION
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Optional TorqTrac App

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

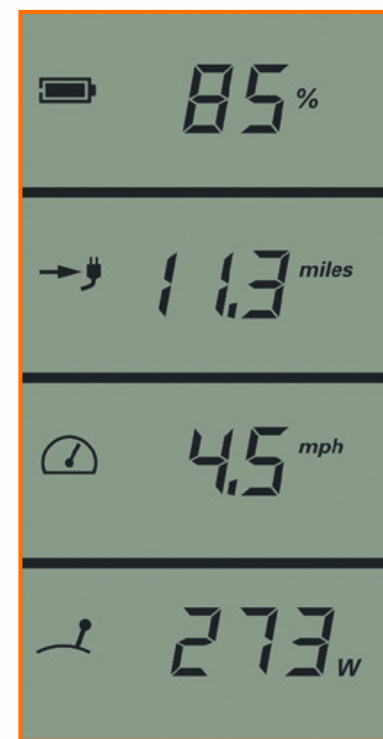


Newly developed pylon with height-adjustable shaft and cutting-edge Torqeedo motor technology.

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.



BENEFITS	MOTOR	SYSTEM	MOUNT	TECHNICAL DATA & PERFORMANCE	APPLICATION
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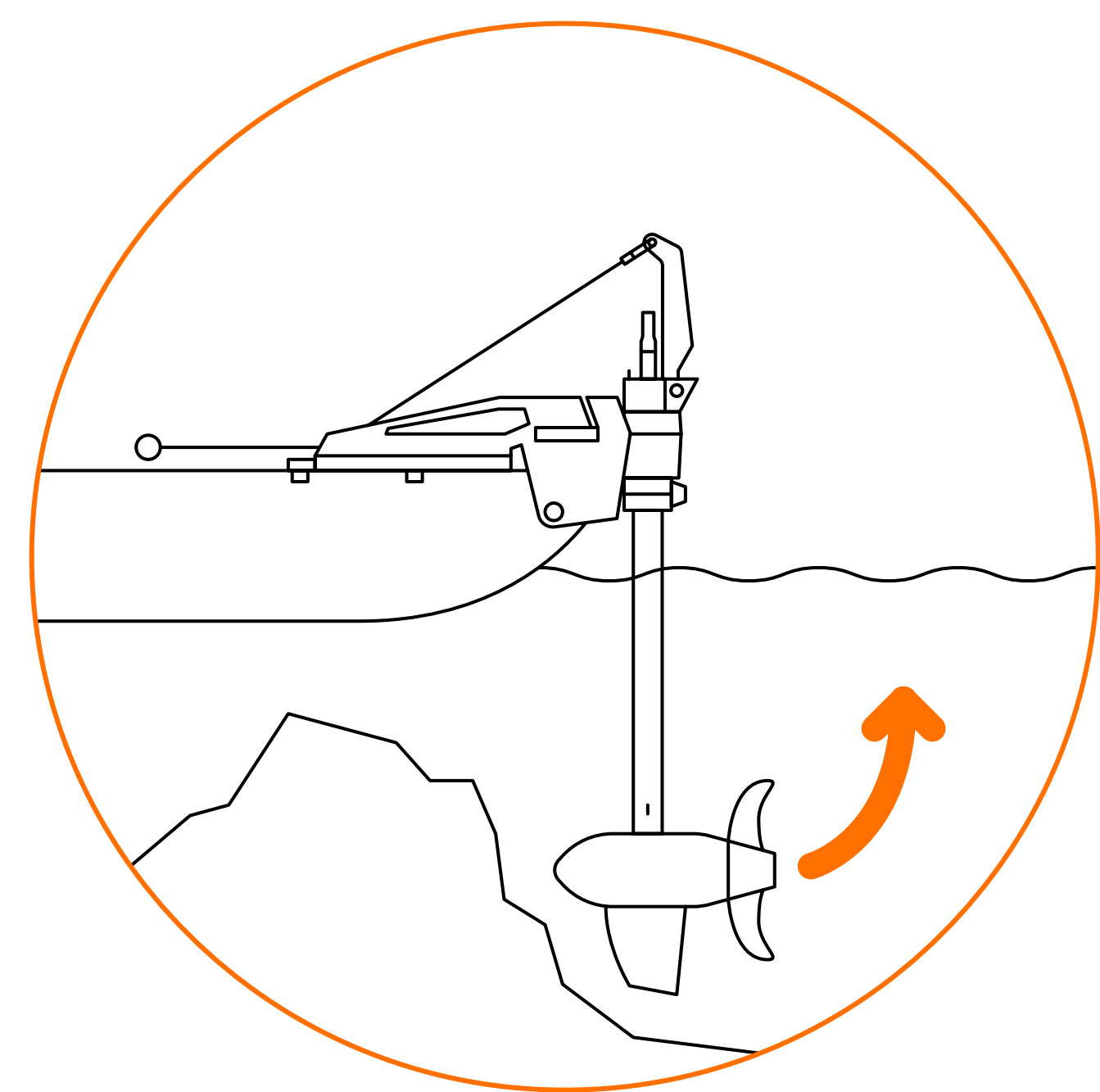
Less fuss, more fish

The Ultralight 403 and 1103 not only take you where the fish are, they deliver hands-free kayak fishing, making them the preferred choice of professional anglers for years now. With a durable, practical and versatile mount for fishing kayaks, the Ultralights allow kayakers to go farther and fish longer, with motors that are **easier to mount, easier to use, and faster to store and stow**.

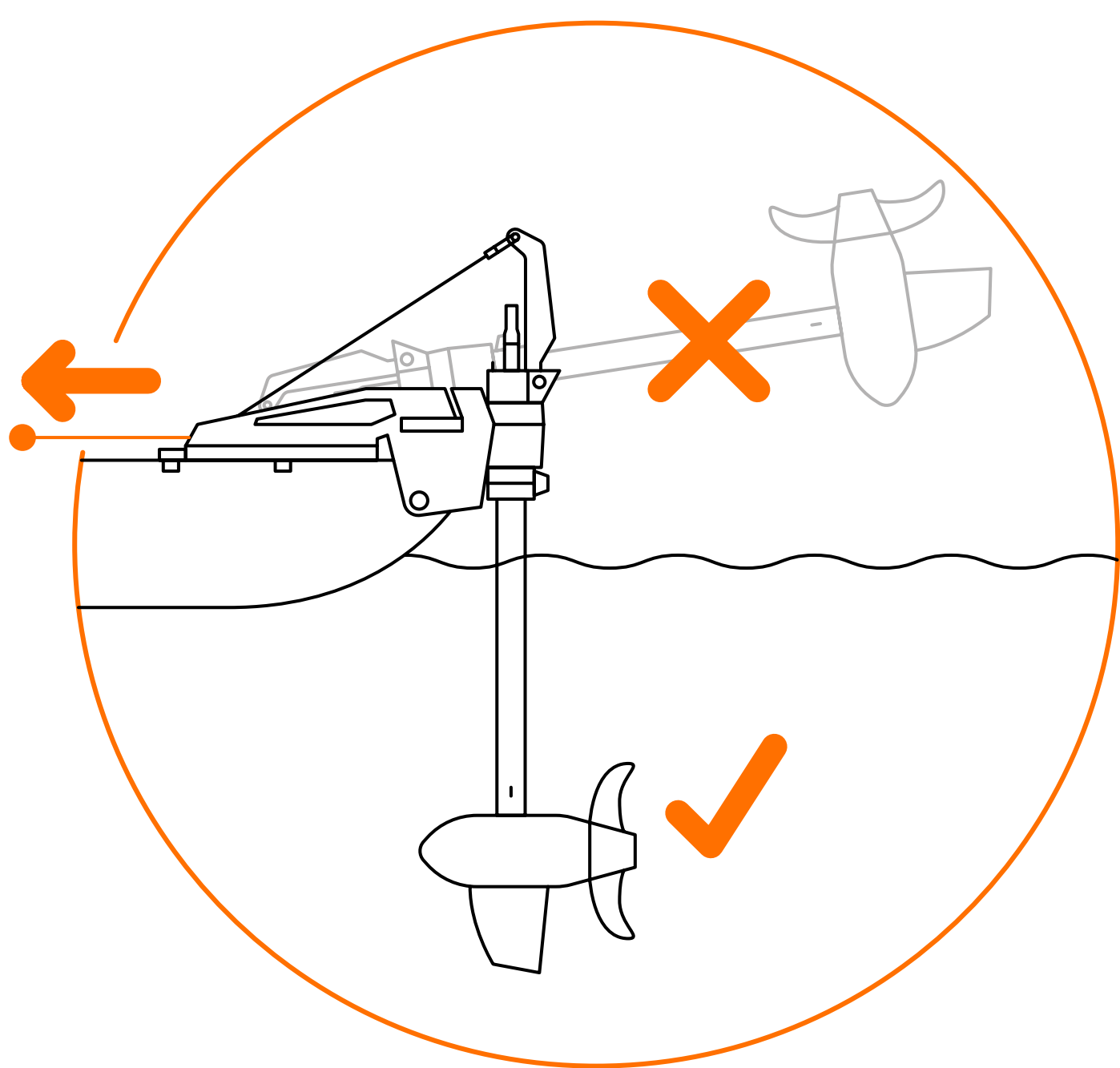
Anglers can choose the motor power that fits their needs, their kayak, and their waterways: either the extremely lightweight and efficient Ultralight 403 or the professional-grade, 3 HP-equivalent new Ultralight 1103 C. Both motors come with a mounting system that offers a host of practical features, including easy motor depth adjustment and a lightning-fast way to safely stow the motor for transport (Ultralight 403) or remove it altogether (Ultralight 1103). 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. Integration with the kayak’s steering system is quick and easy, and the onboard computer delivers real-time range and run-time data. Both Ultralights include a tilt sensor and magnetic kill switch, which automatically cuts the power if the kayak capsizes.

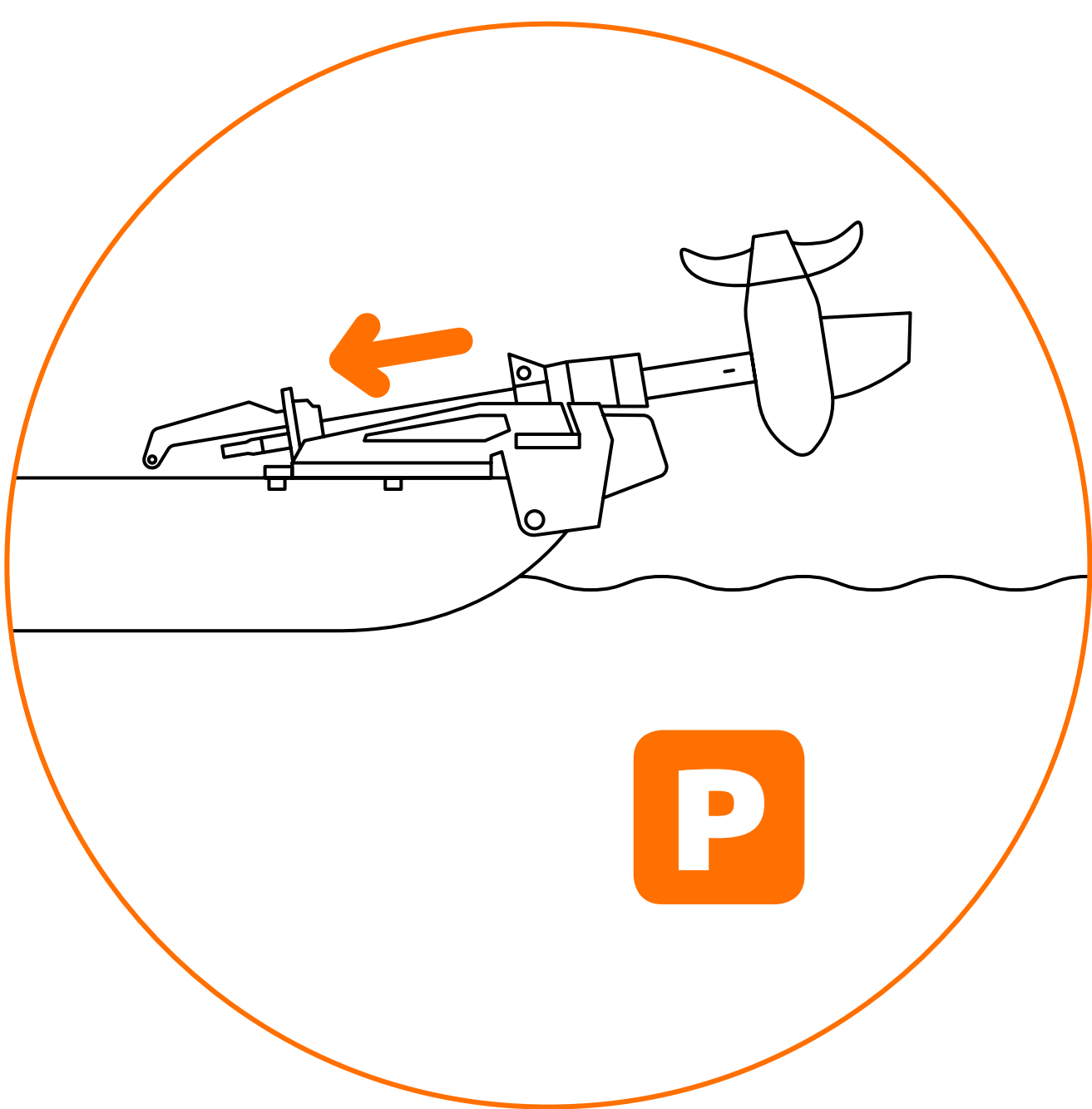
The Ultralight 403 with the optional mounting ball system may be installed on touring kayaks, or kayaks without the four standard stern mounting points.



**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, minimising 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.

BENEFITS	MOTOR	SYSTEM	MOUNT	TECHNICAL DATA & PERFORMANCE	APPLICATION
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	ULTRALIGHT 403 A/AC
Input power in W	400
Propulsive power in W	180
Comparable petrol outboard (shaft power)	1 HP
Comparable petrol outboard (thrust)	2 HP
Comparable diesel inboard (shaft power)	-
Comparable diesel inboard (thrust)	-
Maximum overall efficiency in %	45
Static thrust in lbs*	33
Integrated battery	320 (A) / 915 (AC) Wh Li-Ion
Nominal voltage in V	29.6
Final charging voltage in V	33.6
Total weight in kg	8.8 (A) / 11.0 (AC)
Motor weight without battery, in kg	5.0
Weight of integrated battery, in kg	3.8 (A) / 6.0 (AC)
Shaft length in cm	48
Standard propeller (v = speed in km/h at p = power in W)	v10/p350
Alternative propeller options	-
Maximum propeller speed in rpm at full load	1,200
Control	Throttle
Steering	Connects to kayak steering, lockable
Tilting device	Manual, with impact protection
Trim device	Manual, 4-step
Stepless forward/reverse drive	yes
Integrated onboard computer with display	yes

PERFORMANCE  
Speed and range\*

Slow
Half throttle
Full throttle

PERFORMANCE  
Speed and range\*

Slow
Half throttle
Full throttle

PERFORMANCE  
Speed and range\*

Slow
Half throttle
Full throttle

Ultralight 403 A with integrated battery  
(320 Wh/29.6V/11 Ah)

Wilderness Systems ATAК 140 (4.3 m/43 kg)

Speed in km/h	Range in nm (km)	Running time in hh:mm
5.3	17	03:20
7.2	11.5	01:36
9.1	7.2	00:48

Ultralight 403 AC with integrated battery  
(915 Wh/29.6V/31 Ah)

Wilderness Systems ATAК 140 (4.3 m/43 kg)

Speed in km/h	Range in nm (km)	Running time in hh:mm
5.3	48.5	09:09
7.2	32.9	04:34
9.1	20.7	02:16

Ultralight 1103 AC with integrated battery  
(915 Wh/29.6V/31 Ah)

Wilderness Systems ATAК 140 (4.3 m/43 kg)

Speed in km/h	Range in nm (km)	Running time in hh:mm
5.8	53.3	09:11
10.9	15.9	01:28
12.5	10.4	00:48

\* 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.

BENEFITS	MOTOR	SYSTEM	MOUNT	TECHNICAL DATA & PERFORMANCE	APPLICATION
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## Ultralight: facts and figures

100 km

Max range for the  
Ultralight 403 AC

Top speed for the  
new Ultralight 1103 AC

12.5 km/h

5 ms

How quickly the Torqeedo  
emergency magnetic kill  
switch cuts the power supply  
and stops your motor in  
case of capsize.

[BENEFITS](#)[MOTOR](#)[SYSTEM](#)[MOUNT](#)[TECHNICAL  
DATA &  
PERFORMANCE](#)[APPLICATION](#)



# Travel

From the featherweight Travel 503 to the whisper-quiet Travel 1103 C, these clean and convenient electric outboards make motoring easy and carefree.

- + Most lightweight outboards in their power class, from 13.9 to 17.3 kg complete
- + Highest overall efficiency
- + Most silent electric outboard (Travel 1103)
- + Most dynamic motor response
- + Onboard computer with GPS, remaining range, charge status, and additional functions
- + Easy handling, fast battery swaps, simple to transport

1.5<sup>HP</sup>  
equivalent

3<sup>HP</sup>  
equivalent

Tenders • Dinghies • Daysailers

Travel 503: boats up to 750 kg

Travel 1103 C: boats up to 1.5 tonnes

BENEFITS

MOTOR

PERFORMANCE

TECHNICAL  
DATA

APPLICATION



# Travel 503/1003/1003 C



Travel 1103 C



- ⊕ As powerful as a 1.5 or 3 HP petrol outboard
- ⊕ Long-lasting high-performance lithium battery
- ⊕ Integrated on-board computer with real-time GPS and display of remaining range, speed, charge status and many other functions
- ⊕ Very light, weighing 8.9 kg without a battery and only 13.4 kg with one (Travel 1003 S)
- ⊕ USB connection for an on-board lamp or for charging a mobile phone or camera
- ⊕ Extremely easy handling: tool-free mounting, starts at the press of a button and change of battery within seconds
- ⊕ Waterproof to IP67
- ⊕ Extra powerful spare battery (option): 73% more energy and greater range for 1003 models

BENEFITS	MOTOR	PERFORMANCE	TECHNICAL DATA	APPLICATION
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# Travel 1103 C

The freedom to Travel powerfully, efficiently and quietly

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 aluminium 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 1,500 kg, while the smaller Travel 503 model is ideal for powering boats up to 750 kg. All Torqueedo Travel motors come with a **high-performance lithium-ion battery** and a built-in onboard computer.



Travel 503/1003/1003 C

BENEFITS	MOTOR	PERFORMANCE	TECHNICAL DATA	APPLICATION
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PERFORMANCE  
Speed  
and range\*

Travel 503 with integrated 320 Wh battery  
(29.6 V/11 Ah)  
Inflatable, dinghy, daysailer up to 750 kg

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

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

	Speed in knots (km/h)	Range in nm (km)	Running time in hh:mm	Speed in knots (km/h)	Range in nm (km)	Running time in hh:mm	Speed in knots (km/h)	Range in nm (km)	Running time in hh:mm
»» Slow	approx. 2,0 (3,7)	approx. 12.8 (23.7)	06:20	approx. 2,0 (3,7)	approx. 21.0 (39.0)	10:30	approx. 2,0 (3,7)	aprox. 40.0 (74.0)	20:00
»» Half throttle	approx. 3,0 (5,5)	approx. 6.4 (11.9)	02:08	approx. 3,0 (5,5)	approx. 10,5 (19.3)	03:30	approx. 3,0 (5,5)	approx. 18,0 (33.0)	06:00
»» Full throttle	approx. 4,0 (7,4)	approx. 2.8 (5.2)	00:42	approx. 5,0 (9.2)	approx. 2.9 (5.4)	00:35	approx. 5,5 (10.0)	approx. 4.6 (8.3)	00:50

\* 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.



BENEFITS

MOTOR

PERFORMANCE

TECHNICAL  
DATA

APPLICATION



	TRAVEL 503	TRAVEL 1003 (C)	TRAVEL 1103 C
Input power in W	500	1,000	1,100
Propulsive power in W	240	480	540
Comparable petrol outboard (shaft power)	1.5 HP	3 HP	3 HP
Comparable petrol outboard (thrust)	2 HP	4 HP	4 HP
Comparable diesel inboard (shaft power)	-	-	-
Comparable diesel inboard (thrust)	-	-	-
Maximum overall efficiency in %	48	48	49
Static thrust in lbs*	40	68	70
Integrated battery	320 Wh Li-Ion	530 / 915 (C) Wh Li-Ion	915 Wh Li-Ion
Nominal voltage in V	29.6	29.6	29.6
Final charging voltage in V	33.6	33.6	33.6
Total weight in kg	13.1(S) / 13.7 (L)	Travel 1003: 14.2(S) / 14.8(L) Travel 1003 C: 14.9 (S) / 15.5 (L)	17.3 (S) / 17.7 (L)
Motor weight without battery, in kg	8.9 (S) / 9.5 (L)	8.9 (S) / 9.5 (L)	11.3 (S) / 11.7 (L)
Weight of integrated battery, in kg	4.2	5.3 / 6.0 (C)	6.0
Shaft length in cm	62.5 (S) / 75 (L)	62.5 (S) / 75 (L)	62.5 (S) / 75 (L)
Standard propeller (v = speed in km/h at p = power in W)	v9/p790	v9/p790	v10/p1100
Alternative propeller options	v8/p350	-	v10/p1100 weedless
Maximum propeller speed in rpm at full load	875	1,125	1,450
Control	Tiller	Tiller	Tiller
Steering	360° lockable	360° lockable	+/-60° lockable
Tilting device	Manual, with impact protection	Manual, with impact protection	Manual, with impact protection
Trim device	Manual, 4-step	Manual, 4-step	Manual, 4-step
Stepless forward/reverse drive	yes	yes	yes
Integrated onboard computer with display	yes	yes	yes





# Custom integration: RS21

Reimagined keelboat reduces environmental impact, maximising ease of use

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 Torqueedo 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 maximises 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 light-weight lithium-ion battery is easy to remove when it’s time to charge.

BENEFITS	MOTOR	PERFORMANCE	TECHNICAL DATA	APPLICATION
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# Cruise outboards

Proven, reliable motors with upgraded lithium batteries are the ultimate power packs for sailing or motorboats

- + 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

5<sup>HP</sup>  
equivalent

8<sup>HP</sup>  
equivalent

20<sup>HP</sup>  
equivalent

Motorboats, dinghies, sailboats, water taxis, passenger ferries and commercial applications up to 10 tons



BENEFITS	MOTOR	BATTERIES	CONTROLS	PERFORMANCE	TECHNICAL DATA
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# Cruise 2.0/4.0 R



- ⊕ **All models have a GPS on-board computer and display** in the tiller or electronic throttle with real-time display of speed and input power – and the exact battery status and remaining range when used in combination with the Power 24-3500 lithium battery
- ⊕ Housing and all plug connections **waterproof to IP67**
- ⊕ **Extra robust design**, with lubricant-free polymer plain bearing. Protect against damage from debris – wear-resistant and maintenance-free
- ⊕ Stable pylon made from **highest-grade seawater-proof aluminium** and with an extra-reinforced fin, suitable for the toughest conditions
- ⊕ **Simple motor start** at the press of a button

BENEFITS	MOTOR	BATTERIES	CONTROLS	PERFORMANCE	TECHNICAL DATA
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# Cruise 2.0/4.0 T



Cruise  
2.0/4.0 R



Cruise  
10.0 R



Cruise  
10.0 T



- ⊕ **All models have a GPS on-board computer and display** in the tiller or electronic throttle with real-time display of speed and input power – and the exact battery status and remaining range when used in combination with the Power 24-3500 lithium battery
- ⊕ Housing and all plug connections **waterproof to IP67**
- ⊕ **Extra robust design**, with lubricant-free polymer plain bearing. Protect against damage from debris – wear-resistant and maintenance-free
- ⊕ Stable pylon made from **highest-grade seawater-proof aluminium** and with an extra-reinforced fin, suitable for the toughest conditions
- ⊕ **Simple motor start** at the press of a button

BENEFITS

MOTOR

BATTERIES

CONTROLS

PERFORMANCE

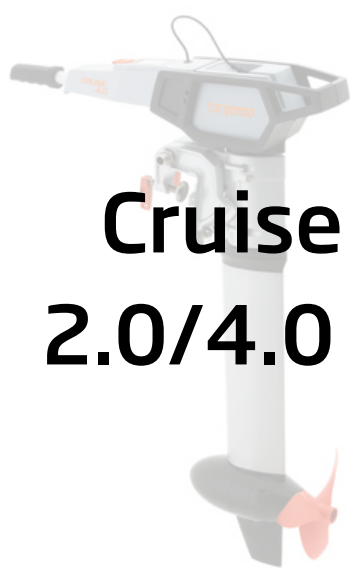
TECHNICAL  
DATA



# Cruise 10.0 R



Cruise  
2.0/4.0 R



Cruise  
2.0/4.0 T



Cruise  
10.0 T



- ⊕ 12 kW peak output and 10 kW continuous output for powerful propulsion
- ⊕ Electric tilting device for ease of operation
- ⊕ Intelligent on-board computer
- ⊕ Easy handling thanks to low-voltage level of 48 V
- ⊕ Corrosion-protected, sea water-capable and
- ⊕ Completely waterproof to IP67
- ⊕ Extremely rugged design including for commercial use in fresh water or sea water

BENEFITS

MOTOR

BATTERIES

CONTROLS

PERFORMANCE

TECHNICAL  
DATA



## Cruise 10.0 T

Cruise  
2.0/4.0 RCruise  
2.0/4.0 TCruise  
10.0 RNew for  
**2020**

- ⊕ 12 kW peak output and 10 kW continuous output for powerful propulsion
- ⊕ Electric tilting device for ease of operation
- ⊕ Intelligent on-board computer
- ⊕ Easy handling thanks to low-voltage level of 48 V
- ⊕ Corrosion-protected, sea water-capable and
- ⊕ Completely waterproof to IP67
- ⊕ Extremely rugged design including for commercial use in fresh water or sea water

BENEFITS

MOTOR

BATTERIES

CONTROLS

PERFORMANCE

TECHNICAL  
DATA





# Power 48-5000

## Power 48-5000

Useable energy	5,000 Wh
Nominal voltage	44.4 V
Weight	37.0 kg
Energy density (weight)	135 Wh/kg
Maximum discharge rate	200 A (8,880 W at nominal voltage)
Dimensions	506 x 396 x 224 mm
Battery chemistry	Li NMC
Cycle lifetime	> 3,000 cycles at 80% depth of discharge at 25°C results in approx. 20% capacity loss
Annual capacity loss	< 3%
Max. connections	2P
Price-performance	1 EUR/Wh

BENEFITS

MOTOR

BATTERIES

CONTROLS

PERFORMANCE

TECHNICAL  
DATA



Power 24-3500



Power 24-3500

Useable energy	3,500 Wh
Nominal voltage	25.9 V
Weight	25.3 kg
Energy density (weight)	138 Wh/kg
Maximum discharge rate	180 A (4,500 W at nominal voltage)
Dimensions	577.5 x 218.5 x 253.5 mm
Battery chemistry	Li NMC
Cycle lifetime	800 cycles at 100% depth of discharge at 25 °C results in approx. 25% capacity loss
Annual capacity loss	4%
Max. connections	2S8P or 1S16P
Price-performance	0.86 EUR/Wh



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

Remote throttle

Instead of using the tiller, you can control your Travel or Cruise motor with the throttle located 1.5 or 5 metres away. It comes with an onboard computer display, fully variable forward and reverse and two different lengths of data cable.



BENEFITS	MOTOR	BATTERIES	CONTROLS	PERFORMANCE	TECHNICAL DATA
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PERFORMANCE

Speed and range\*

- Slow
- Full throttle

Cruise 2.0 with 1 x Power 24-3500  
(26 V, 3500 Wh, battery weight 25 kg)  
Motorboats and sailboats up to 3 tons

Speed in knots (km/h)	Range in nm (km)	Running time in hh:mm
approx. 2.7 (5.0)	approx. 21.0 (40.0)	08:00
approx. 6.0 (11.0)	approx. 10.5 (19.0)	01:45

Cruise 4.0 with 1 x Power 48-5000  
(44.4 V, 5000 Wh, battery weight 37 kg)  
Motorboats and sailboats up to 4 tons

Speed in knots (km/h)	Range in nm (km)	Running time in hh:mm
approx. 2.7 (5.0)	approx. 27.0 (50.0)	10:00
approx. 7.0 (13.0)	approx. 9.0 (16.0)	01:15

Cruise 10.0 with 2 x Power 48-5000  
(44.4 V, 2 x 5000 Wh, battery weight 74 kg)  
Motorboats and sailboats up to 10 tons

Speed in knots (km/h)	Range in nm (km)	Running time in hh:mm
approx. 4.2 (7.8)	approx. 32.0 (60.0)	06:00
approx. 14.0 (26.5)	approx. 14.0 (26.5)	01:00

\* 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 2.0 T/R	CRUISE 4.0 T/R	CRUISE 10.0 T/R	TWIN CRUISE 2.0 R	TWIN CRUISE 4.0 R
Input power in W	2,000	4,000	10,000	4,000	8,000
Propulsive power in W	1,120	2,240	5,600	2,240	4,480
Comparable petrol outboard (shaft power)	5 HP	8 HP	20 HP	8 HP	15 HP
Comparable petrol outboard (thrust)	6 HP	9.9 HP	25 HP	12 HP	20 HP
Comparable diesel inboard (shaft power)	-	-	-	-	-
Comparable diesel inboard (thrust)	-	-	-	-	-
Maximum overall efficiency in %	56	56	56	56	56
Static thrust in lbs*	115	189	up to 405	230	378
Integrated battery	-	-	-	-	-
Nominal voltage in V	24	48	48	24	48
Final charging voltage in V	-	-	-	-	-
Total weight in kg	T: 17.5 (S) / 18.6 (L) R: 15.3 (S) / 16.2 (L)	T: 18.3 (S) / 19.4 (L) R: 16.1 (S) / 17.0 (L)	T: 60.3 (S)/61.8 (L)/63.0 (XL) R: 59.8 (S)/61.3 (L)/62.5 (XL)	31.0 (S) / 33.1 (L)	32.5 (S) / 34.5 (L)
Motor weight without battery, in kg	-	-	-	-	-
Weight of integrated battery, in kg	-	-	-	-	-
Shaft length in cm	62.4 (S) / 74.6 (L)	62.4 (S) / 74.6 (L)	38.5 (S)/51.2 (L)/63.9 (XL)	62.4 (S) / 74.6 (L)	62.4 (S) / 74.6 (L)
Standard propeller (v = speed in km/h at p = power in W)	v13/p4000	v20/p4000	v22/p10k	v13/p4000	v20/p4000
Alternative propeller options	v19/p4000 v20/p4000 v30/p4000	v13/p4000 v19/p4000 v30/p4000	v32/p10k v15/p10k	v19/p4000 v20/p4000 v30/p4000	v13/p4000 v19/p4000 v30/p4000
Maximum propeller speed in rpm at full load	1,300	1,300	1,400	1,300	1,300
Control	Tiller/throttle	Tiller/throttle	Tiller/throttle	Throttle	Throttle
Steering	360° lockable	360° lockable	+/-45°	Provision to connect to standard remote steering; lockable	Provision to connect to standard remote steering; lockable
Tilting device	Manual, with impact protection	Manual, with impact protection	Power tilt	Manual, with impact protection	Manual, with impact protection
Trim device	Manual, 4-step	Manual, 4-step	Manual, 4-step	Manual, 4-step	Manual, 4-step
Stepless forward/reverse drive	yes	yes	yes	yes	yes
Integrated onboard computer with display	yes	yes	yes	yes	yes



# Cruise pod drives

Quiet and eco-friendly, lightweight Cruise pods free up space below deck and can charge their own batteries while under sail

- + Smaller and lighter than combustion saildrives
- + Virtually silent while in use
- + No fuel or oil to leak or stink
- + Powerful lithium batteries provide long-range motoring
- + Minimal impact on sailing speed
- + Durable design and excellent corrosion protection for fresh and salt water

5<sup>HP</sup>  
equivalent

8<sup>HP</sup>  
equivalent

20<sup>HP</sup>  
equivalent

Sailboats up to 10 tonnes  
Commercial application up to 10 tonnes



BENEFITS

SYSTEM

MOTOR

BATTERIES

CONTROLS

TECHNICAL  
DATA &  
PERFORMANCE

APPLICATION



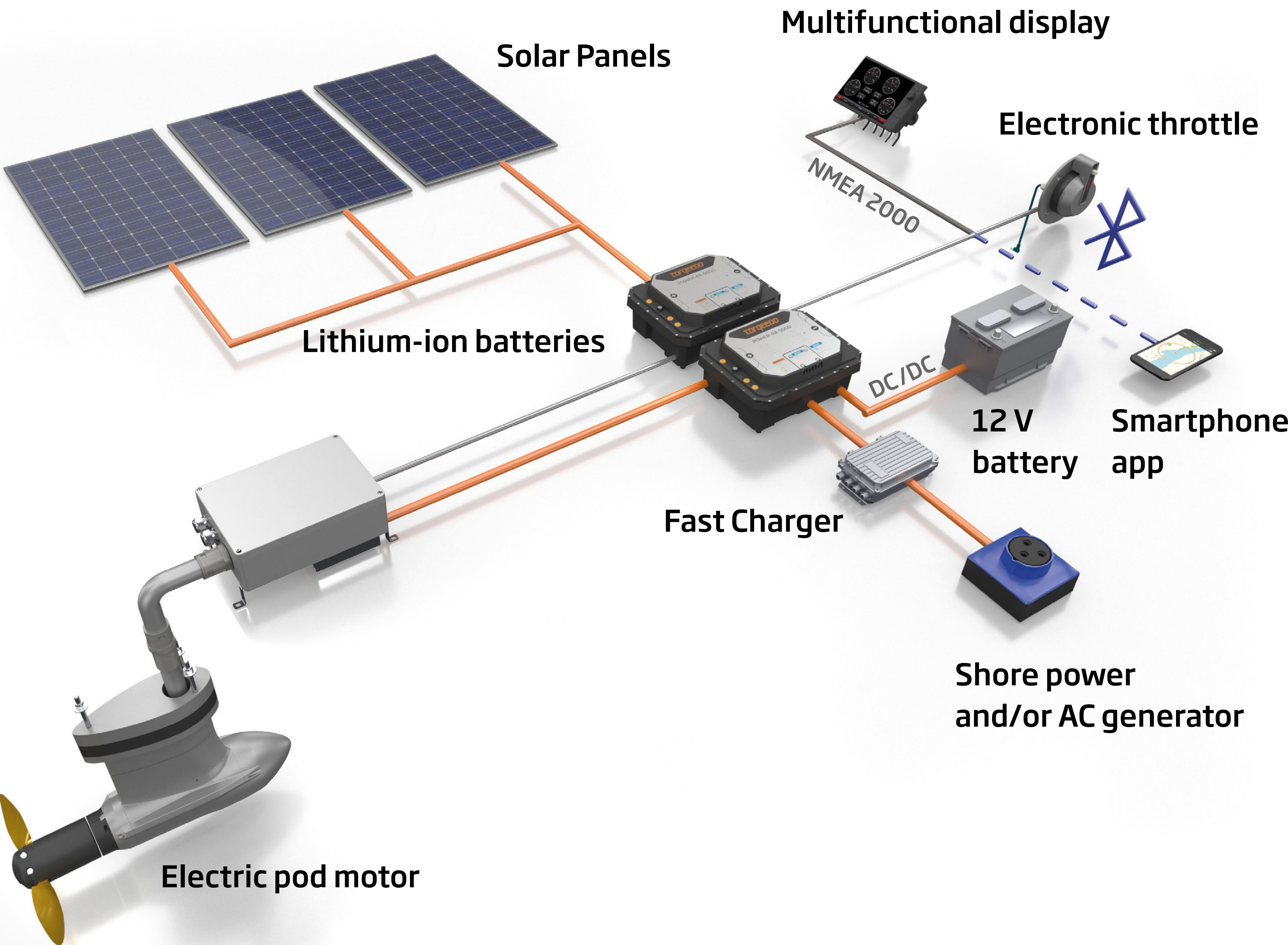
Your boat - our fully integrated solution

More than just a motor company, Torqueedo is the only manufacturer that can deliver a fully customisable drive system with carefully matched and tested components, all from a single source.

For this purpose, the tried-and-tested Torqueedo 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 Torqueedo TorqTrac app for smartphones. The batteries can be charged from shore power using Torqueedo chargers, from solar power or from a generator. This smart system can also charge its own batteries while sailing if placed in hydrogeneration mode.

Torqueedo's Cruise pod systems are suitable for sailboats from 25 to 40 feet.



Example layout:  
Torqueedo adapts the system to the specific requirements of every customer.

BENEFITS	SYSTEM	MOTOR	BATTERIES	CONTROLS	TECHNICAL DATA & PERFORMANCE	APPLICATION
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# Cruise 2.0/4.0 FP



- ⊕ **Stable pylon** made from highest-grade seawater-proof aluminium
- ⊕ **Extra robust design** protects against damage from debris – wear-resistant and maintenance-free
- ⊕ All models with **GPS on-board computer and display**: real-time display of speed and input power – and also the exact battery status and remaining range when used in combination with the Power 24-3500 lithium battery
- ⊕ **Connection to TorqTrac**: the premium on-board computer on your smartphone
- ⊕ Folding propellers available as accessories for all models

BENEFITS	SYSTEM	MOTOR	BATTERIES	CONTROLS	TECHNICAL DATA & PERFORMANCE	APPLICATION
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# Cruise 10.0 FP



- ⊕ **Stable pylon** made from highest-grade seawater-proof aluminium
- ⊕ **Extra robust design** protects against damage from debris – wear-resistant and maintenance-free
- ⊕ All models with **GPS on-board computer and display**: real-time display of speed and input power – and also the exact battery status and remaining range when used in combination with the Power 24-3500 lithium battery
- ⊕ **Connection to TorqTrac**: the premium on-board computer on your smartphone
- ⊕ Folding propellers available as accessories for all models

BENEFITS	SYSTEM	MOTOR	BATTERIES	CONTROLS	TECHNICAL DATA & PERFORMANCE	APPLICATION
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# Cruise 10.0 FP SD



- ⊕ **Stable pylon** made from highest-grade seawater-proof aluminium
- ⊕ **Extra robust design** protects against damage from debris – wear-resistant and maintenance-free
- ⊕ All models with **GPS on-board computer and display**: real-time display of speed and input power – and also the exact battery status and remaining range when used in combination with the Power 24-3500 lithium battery
- ⊕ **Connection to TorqTrac**: the premium on-board computer on your smartphone
- ⊕ Folding propellers available as accessories for all models

BENEFITS	SYSTEM	MOTOR	BATTERIES	CONTROLS	TECHNICAL DATA & PERFORMANCE	APPLICATION
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# Power 48-5000

## Power 48-5000

Useable energy	5,000 Wh
Nominal voltage	44,4 V
Weight	37.0 kg
Energy density (weight)	135 Wh/kg
Maximum discharge rate	200 A (8,880 W at nominal voltage)
Dimensions	506 x 386 x 224 mm
Battery chemistry	Li NMC
Cycle lifetime	> 3,000 cycles at 80% depth of discharge at 25°C results in approx. 20% capacity loss
Annual capacity loss	< 3%
Max. connections	2P
Price-performance	1 EUR/Wh

BENEFITS

SYSTEM

MOTOR

BATTERIES

CONTROLS

TECHNICAL  
DATA &  
PERFORMANCE

APPLICATION



Power 24-3500



Power 24-3500

Useable energy	3,500 Wh
Nominal voltage	25.9 V
Weight	25.3 kg
Energy density (weight)	138 Wh/kg
Maximum discharge rate	180 A (4,500 W at nominal voltage)
Dimensions	577.5 x 218.5 x 253.5 mm
Battery chemistry	Li NMC
Cycle lifetime	800 cycles at 100% depth of discharge at 25 °C results in approx. 25% capacity loss
Annual capacity loss	4%
Max. connections	2S8P or 1S16P
Price-performance	0.86 EUR/Wh





Side-mount sail



Side-mount motor



Top-mount single



Top-mount twin

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 Torqueedo’s TorqTrac smartphone app.

BENEFITS	SYSTEM	MOTOR	BATTERIES	CONTROLS	TECHNICAL DATA & PERFORMANCE	APPLICATION
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	CRUISE 2.0 FP	CRUISE 4.0 FP	CRUISE 10.0 FP
Input power in W	2,000	4,000	10,000
Propulsive power in W	1,120	2,240	5,600
Comparable petrol outboard (shaft power)	-	-	-
Comparable petrol outboard (thrust)	-	-	-
Comparable diesel inboard (shaft power)	5 HP	8 HP	20 HP
Comparable diesel inboard (thrust)	6 HP	9.9 HP	25 HP
Maximum overall efficiency in %	56	56	56
Static thrust in lbs*	115	189	up to 435
Integrated battery	-	-	-
Nominal voltage in V	24	48	48
Final charging voltage in V	-	-	-
Total weight in kg	15.4	15.8	33.5
Motor weight without battery, in kg	-	-	-
Weight of integrated battery, in kg	-	-	-
Shaft length in cm	-	-	-
Standard propeller (v = speed in km/h at p = power in W)	v13/p4000	v13/p4000	v15/p10k
Alternative propeller options	v13/p4000 (folding propeller)	v13/p4000 (folding propeller)	v15/p10k (fold.prop.) v22/p10k v32/p10k
Maximum propeller speed in rpm at full load	1,300	1,300	1,400
Control	Throttle	Throttle	Throttle
Steering	-	-	-
Tilting device	-	-	-
Trim device	-	-	-
Stepless forward/reverse drive	yes	yes	yes
Integrated onboard computer with display	yes	yes	yes

PERFORMANCE

Speed and range\*

Slow

Full throttle

<b>Cruise 2.0 FP with 1 x Power 24-3500</b> (36 V, 3500 Wh, battery weight 25 kg) Sailboats up to 3 tons		
Speed in knots (km/h)	Range in nm (km)	Running time in hh:mm
approx. 2.7 (5.0)	approx. 21.0 (40.0)	08:00
approx. 6.0 (11.0)	approx. 10.5 (19.0)	01:45

PERFORMANCE

Speed and range\*

Slow

Full throttle

<b>Cruise 4.0 FP with 1 x Power 48-5000</b> (44.4 V, 5000 Wh, battery weight 37 kg) Sailboats up to 4 tons		
Speed in knots (km/h)	Range in nm (km)	Running time in hh:mm
approx. 2.7 (5.0)	approx. 27.0 (50.0)	10:00
approx. 6.0 (11.0)	approx. 7.5 (13.5)	01:15

PERFORMANCE

Speed and range\*

Slow

Full throttle

<b>Cruise 10.0 with 2 x Power 48-5000</b> (44.4 V, 2 x 5000 Wh, battery weight 74 kg) Motorboats and sailboats up to 10 tons		
Speed in knots (km/h)	Range in nm (km)	Running time in hh:mm
approx. 2.7 (5.0)	approx. 30.0 (55.0)	10:00
approx. 6.0 (11.0)	approx. 7.0 (13.0)	01:00





# 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 Torqueedo 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 Torqueedo 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



# Deep Blue

The complete solution for powerful electric drive systems - a 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

25<sup>kW</sup> 50<sup>kW</sup> 100<sup>kW</sup>

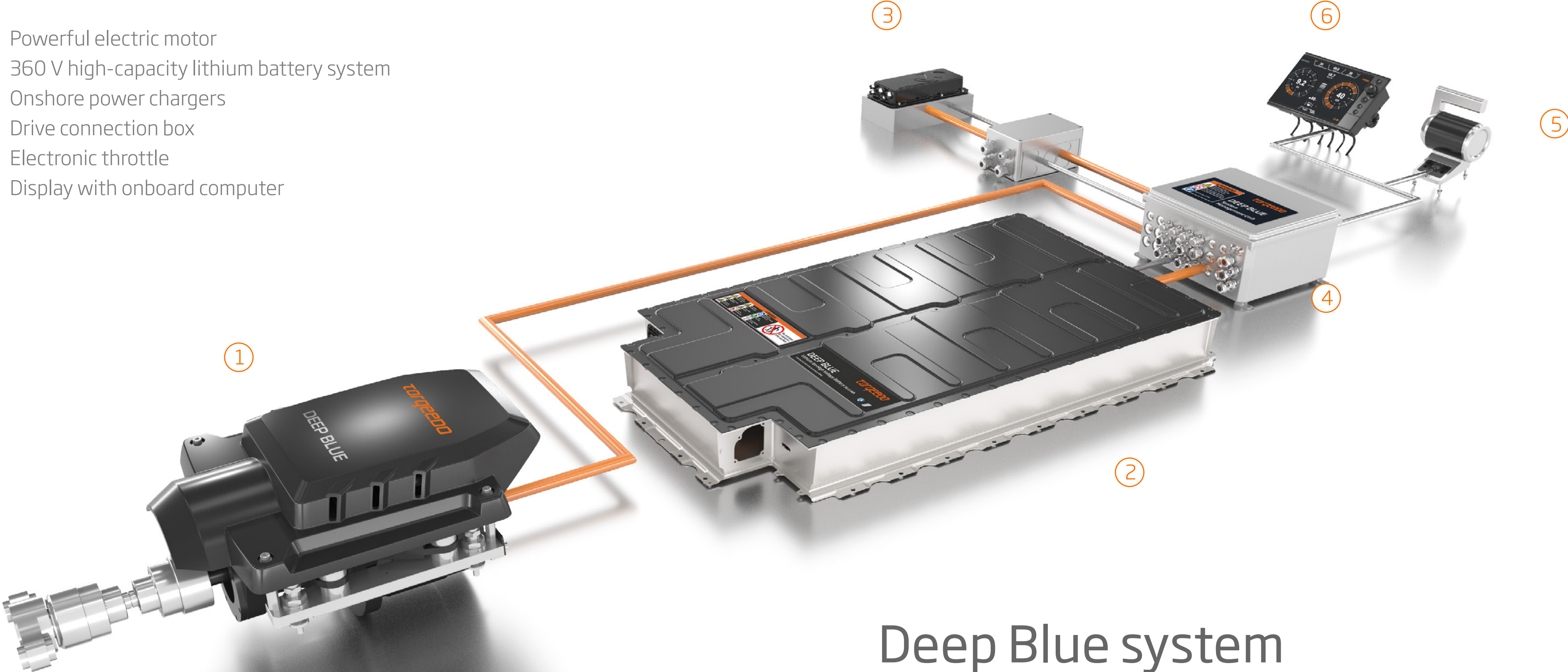
Yachts up to 120 feet  
Large motorboats  
Boats in nature reserves  
Boats for commercial use, such as water taxis, ferries, and tour boats



BENEFITS	SYSTEM	MOTOR	BATTERIES	GENSET	APPLICATION
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- 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



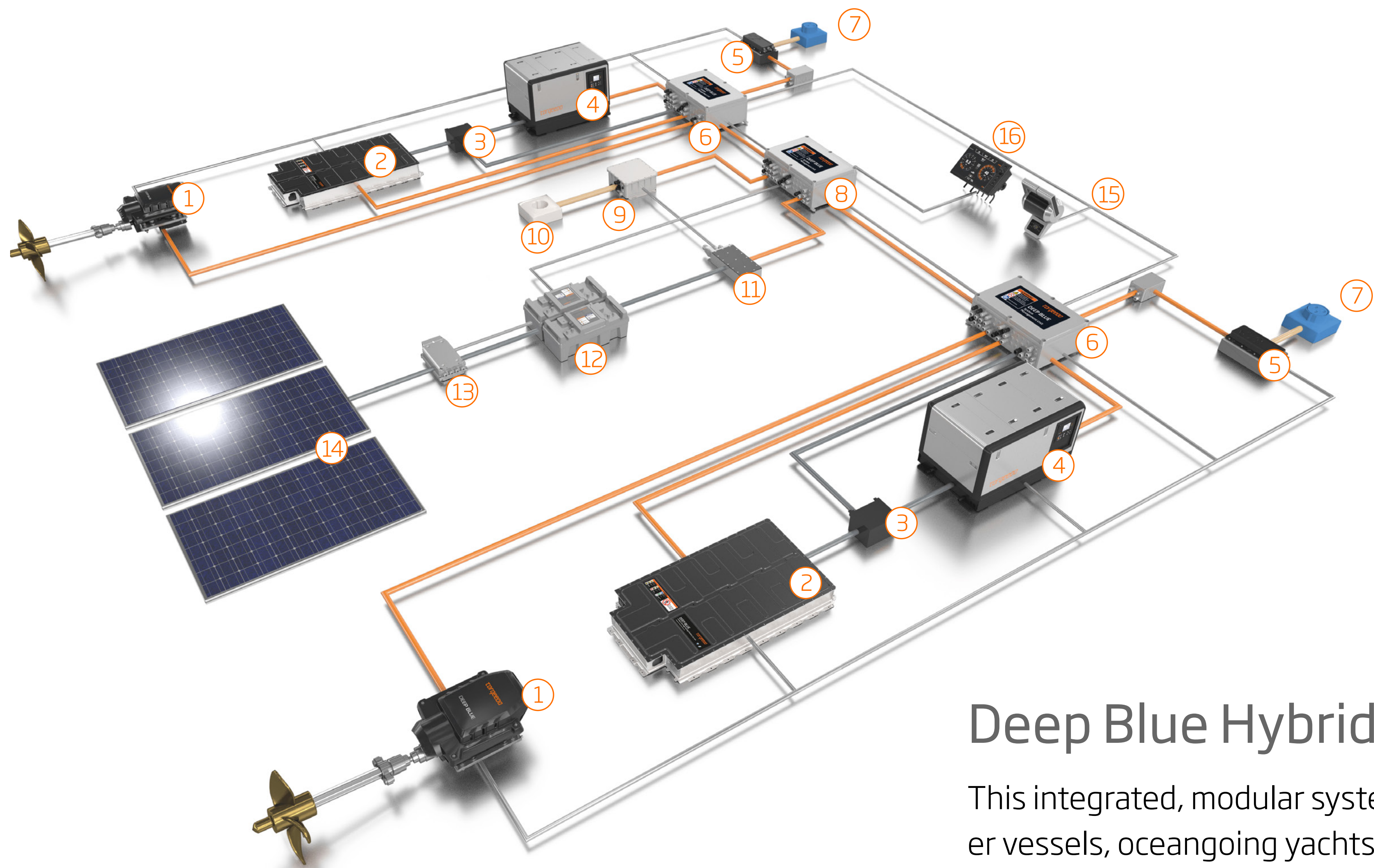
Deep Blue  
Hybrid System

## 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.

BENEFITS	SYSTEM	MOTOR	BATTERIES	GENSET	APPLICATION
----------	--------	-------	-----------	--------	-------------





- 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

## 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.

BENEFITS

SYSTEM

MOTOR

BATTERIES

GENSET

APPLICATION

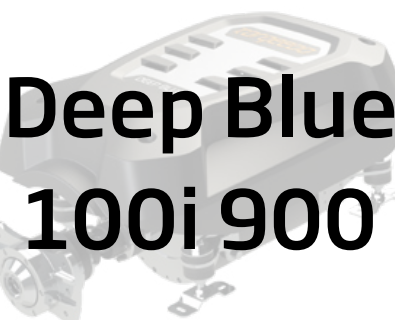




Deep Blue  
25/50 R



Deep Blue  
25/50 i



Deep Blue  
100i 900



Deep Blue  
100i 2400



# Deep Blue SD

- ⊕ **Lightweight:** Saildrive with motor 85 kg
- ⊕ **Space-saving design**
- ⊕ Compatible with standard saildrive mounting flanges

Saildrive	Deep Blue 25 SD
Max. propeller speed	2,340 rpm
Shaft power (peak)	29 kW
Shaft power (continuous)	25 kW
Torque	215 Nm
Weight (incl. electronics)	125 kg

BENEFITS

SYSTEM

MOTOR

BATTERIES

GENSET

APPLICATION

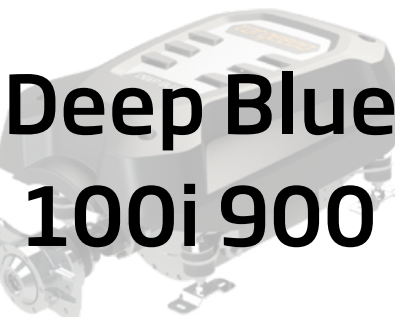




Deep Blue  
25/50 R



Deep Blue  
25/50 i



Deep Blue  
100i 900



Deep Blue  
100i 2400



# Deep Blue R/T models

- ⊕ Power trim and tilt function (PTT)
- ⊕ Extremely **efficient propeller design** with hub-vortex vane

Outboards	Deep Blue 25 R	Deep Blue 50 R
Max. propeller speed	2,400 rpm	2,400 rpm
Shaft power (peak)	30 kW	60 kW
Shaft power (continuous)	25 kW	50 kW
Torque	198 Nm	198 Nm
Weight (incl. electronics)	from 139 kg	from 139 kg

BENEFITS

SYSTEM

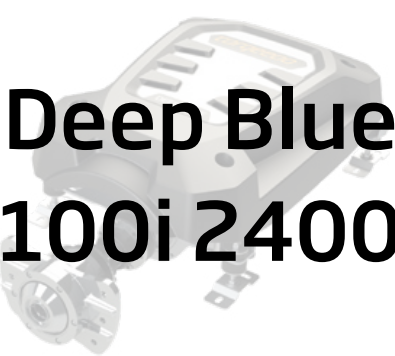
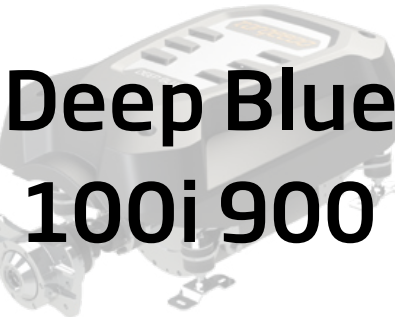
MOTOR

BATTERIES

GENSET

APPLICATION





# Deep Blue i-models

- ⊕ **Lightweight:** Inboard with motor and electronics system 85 kg
- ⊕ **Compact construction**
- ⊕ **Available in motor-speed versions** of 1,800 rpm and 1,400 rpm
- ⊕ **Suitable for saltwater cooling**

Inboards	Deep Blue 25i	Deep Blue 50i
RPM propeller (maximum)	1,400 rpm	1,400 rpm
Shaft power (peak)	30 kW	60 kW
Shaft power (continuous)	25 kW	50 kW
Torque	343 Nm	350 Nm
Weight (incl. electronics)	85 kg	85 kg

BENEFITS

SYSTEM

MOTOR

BATTERIES

GENSET

APPLICATION





Deep Blue  
25/50 R



Deep Blue  
25/50 R



Deep Blue  
25/50 i



Deep Blue  
100i 2400



# Deep Blue 100i 900

- ⊕ Suitable for yachts up to 120 feet long
- ⊕ Delivers 100 kW of **continuous, emission-free power**
- ⊕ **Ultimate torque, low maintenance**
- ⊕ Powered by **high-capacity batteries** with technology by BMW i

Inboards	Deep Blue 100i 900
RPM propeller (maximum)	900 rpm
Shaft power (peak)	-
Shaft power (continuous)	100 kW
Torque	1060 Nm
Weight (incl. electronics)	465 kg

BENEFITS

SYSTEM

MOTOR

BATTERIES

GENSET

APPLICATION





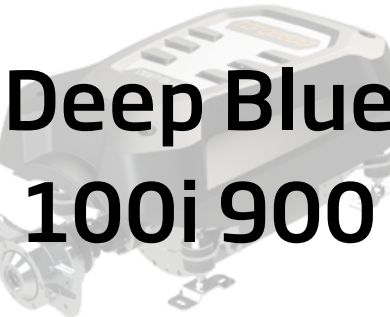
Deep Blue  
25/50 R



Deep Blue  
25/50 R



Deep Blue  
25/50 i



Deep Blue  
100i 900



# Deep Blue 100i 2400

- ⊕ 100 kW motor was **specifically constructed to power fast, planing motorboats**
- ⊕ **Reliable, low-maintenance, direct-drive design**
- ⊕ **Extraordinary performance**, with up to 2,400 rotations per minute and a torque of 390 Nm

Inboards	Deep Blue 100i 2400
Max. propeller speed	2,700 rpm
Shaft power (peak)	120 kW
Shaft power (continuous)	100 kW
Torque	437 Nm
Weight (incl. electronics)	195 kg

BENEFITS

SYSTEM

MOTOR

BATTERIES

GENSET

APPLICATION





Deep Blue Batterie  
(Typ i8)

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.

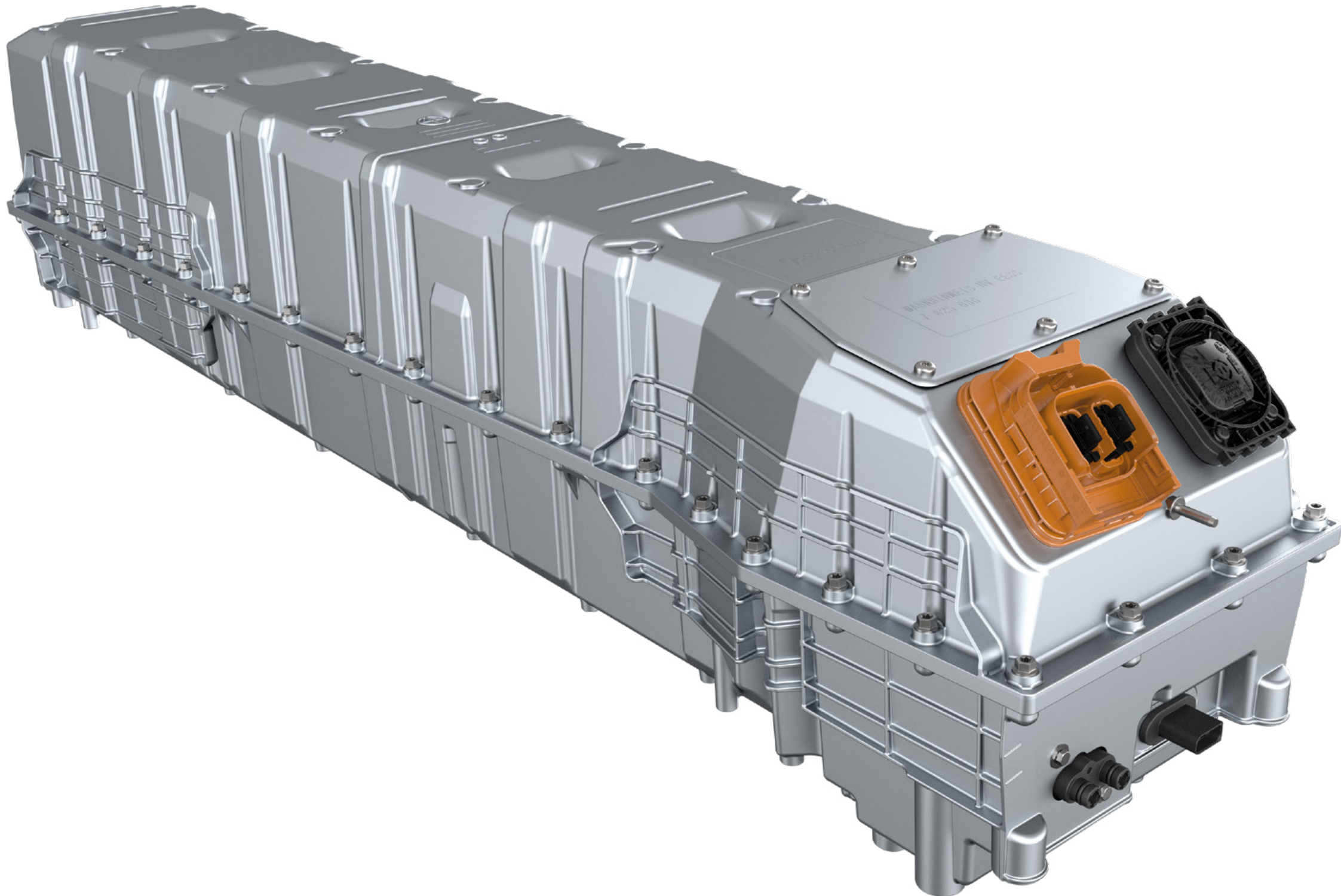
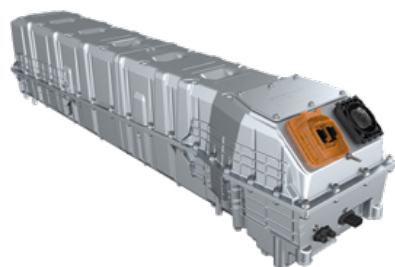
Deep Blue battery (i3-type)

Technical data

	i3-type
Nominal voltage	360 V
Max. continuous performance	55 kW
Capacity	40.0 kWh
Weight	278 kg
Dimensions	1660 x 964 x 174 mm



Deep Blue Batterie (Typ i3)



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 250 kg – perfect for smaller vessels or those with narrow hulls. Thanks to special cell technology, many applications don’t require active cooling.

Deep Blue battery (i8-type)

Technical data

	i8-type
Nominal voltage	355 V
Max. continuous performance	25 kW
Capacity	10.0 kWh
Weight	97 kg
Dimensions	1460 x 305 (240) x 330 mm





# 25 kW Range Extender

## Economical auxiliary power

Torqueedo'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.

## Technical data

Deep Blue generator 25 kW	
Continuous power	25 kW
Max. rpm of diesel engine	2,200
Weight	480 kg
Dimensions	1107 x 748 x 704 mm
Benefits	Low noise • High efficiency • Less vibration

BENEFITS	SYSTEM	MOTOR	BATTERIES	GENSET	APPLICATION
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25 kW Range Extender



# 20 kW Range Extender

## Economical auxiliary power

Torqueedo’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 setttings.

## Technical data

Deep Blue generator 20 kW	
Continuous power	20 kW
Max. rpm of diesel engine	3,600
Weight	270 kg
Dimensions	1000 x 600 x 619 mm
Benefits	Compact size • Light weight





Deep Blue drives for sailboats

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 hotel loads, including climate control, watermaker and the galley, are supplied through a 24 V Torqueedo 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.



BENEFITS	SYSTEM	MOTOR	BATTERIES	GENSET	APPLICATION
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Deep Blue drives for sailboats

Spirit

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 33.9 metre 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.



BENEFITS	SYSTEM	MOTOR	BATTERIES	GENSET	APPLICATION
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Deep Blue drives for motorboats

XShore

The X Shore eElectric 8000 has a distinctive Scandinavian design with clean, simple and functional lines. The innovative hull shape allows the vessel to handle offshore conditions and the twin 50 kW Deep Blue inboard motor system with BMW technology (i3-type) delivers a clean, quiet and emission-free boating experience. The wide-open layout allows owners to haul cargo or stretch out to bask in the sun, and the rubber-clad bow makes mooring easy. The X Shore is a boat for the smart generation.



BENEFITS

SYSTEM

MOTOR

BATTERIES

GENSET

APPLICATION





Deep Blue drives for motorboats

## Frauscher 740 Mirage Air

The Frauscher shipyard has been building some of the world’s most luxurious yachts since 1927. The fully electric 740 Mirage Air further enhances tradition with innovation, high-tech features and eco-friendliness. Installed with a Deep Blue 100i 2500 inboard motor and a lithium battery with BMW technology (i3-type), the 740 Mirage Air is the perfect day yacht.



BENEFITS	SYSTEM	MOTOR	BATTERIES	GENSET	APPLICATION
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Deep Blue Commercial

**Award-winning Spanish solar ferry**

The ECOCAT is an 18-metre, 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 Shipyard and designed by m2 Ingenieria Naval.



BENEFITS

SYSTEM

MOTOR

BATTERIES

GENSET

APPLICATION





Deep Blue Commercial

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.



BENEFITS	SYSTEM	MOTOR	BATTERIES	GENSET	APPLICATION
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# Accessories

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

The full range of Torqeedo accessories is available at [www.torqeedo.com](http://www.torqeedo.com)



- + 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

BENEFITS	CONTROLS	POWER SUPPLY	CHARGING	PROPELLERS
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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 Torqueedo’s TorqTrac smartphone app.



Side-mount sail

Side-mount motor

Top-mount single

Top-mount twin



Remote throttle

Instead of using the tiller, you can control your Travel or Cruise motor with the throttle located 1.5 or 5 metres away. It comes with an on-board computer display, fully variable forward and reverse and two different lengths of data cable.



Chartplotter gateway

Link external devices to Torqueedo 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 320 Wh, 530 Wh or 915 Wh capacity.





**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, maximising 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.

BENEFITS

CONTROLS

POWER SUPPLY

CHARGING

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.