

DEEP BLUE



ELECTRIFICATION
MADE EASY WITH
CUSTOMIZED
SYSTEM SOLUTIONS



PROPEL YOUR BUSINESS FORWARD WITH ELECTRIC DRIVE SYSTEMS

With nearly 20 years of experience and electric drive systems up to 200 kW, Torqeedo is your perfect partner for the electric age on the water. Our ultra-reliable, cutting-edge electric motors and battery solutions are powering urban ferries, water taxis, workboats, and tour vessels around the world. Torqeedo pioneered electric drive systems for

the marine industry, and we continue to develop ever more powerful solutions. Our technology allows passengers to experience the pleasure of quiet, emission-free travel, while respecting the environment and the communities we serve.

Going electric is a win-win situation: Your employees will benefit from a clean and

healthy work environment, your customers and passers-by will enjoy fresh air, peace and quiet, and you'll see the rewards of future-proof investing in your books.

DISCOVER FLEXIBLE POWER SOLUTIONS WITH OUR MODULAR ELECTRIC AND HYBRID DRIVE SYSTEMS – CUSTOMIZED FOR YOUR NEEDS, READY WHEN YOU ARE.

LOWER EMISSIONS & CARBON FOOTPRINT

Reduce your environmental impact by up to 100% with emission-free electric drives. Cut emissions by 30-70%, even with coal-powered grids.

COST SAVINGS

Enjoy lower, more stable fuel costs and reduced maintenance, leading to increased uptime and more time on the water.

SMOOTH & FLEXIBLE OPERATION

Electric systems provide a quiet, clean ride, enhancing passenger comfort and crew well-being while allowing operation in noise-sensitive areas. Unparalleled maneuverability and acceleration make docking and confined area operation easier.

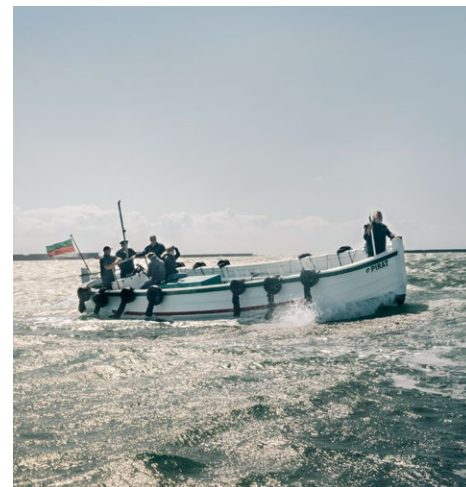
FUTURE-PROOF FLEET

Embrace emission-free technology that prepares your fleet for stricter regulations and future challenges. Gain a competitive advantage for securing funding, permits, and customers.

GLOBAL SERVICE SUPPORT

With a worldwide network of service centers, Torquedo offers complete systems and reliable support, ensuring you're always operational.

Torquedo is the trusted electrification partner of many of the world's biggest boating brands and delivers everything you need to go electric from a single source. Contact our expert team at commercial@torquedo.com to schedule an appointment and start your journey toward a cleaner, more profitable future today.



TORQEEDO AS YOUR TECHNOLOGY PARTNER

We design electric and hybrid propulsion and energy management systems for recreational and commercial boats up to 140 feet. Our unmatched expertise ensures Torqueedo delivers everything you need to go electric from a single source.

Deep Blue is a fully integrated, modular system with scalable architecture. Our experts will customize the

solution to your fleet's specific needs and train your crew for smooth operation.

Efficiency and cost effectiveness drive our design. We offer the most compact systems and industry-leading battery warranties of up to 10 years. Our global support team, with nearly 20 years of experience, will ensure your fleet stays operational.

Your customized system will deliver exceptional performance, safety, and compliance with international standards like ES-TRIN, DNV, and RINA. What's more, your crew will love the intuitive controls and smooth handling.

ELECTRIFICATION MADE EASY



**HOLISTIC
PARTNERSHIP**



**MODULAR
SOLUTIONS**



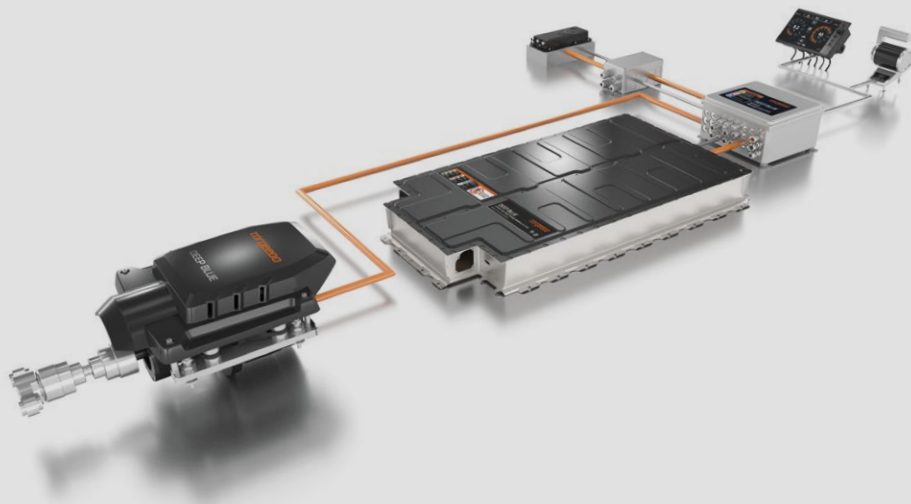
**OPTIMIZED
FOR WEIGHT
& SPACE**



**COST
EFFICIENCY**

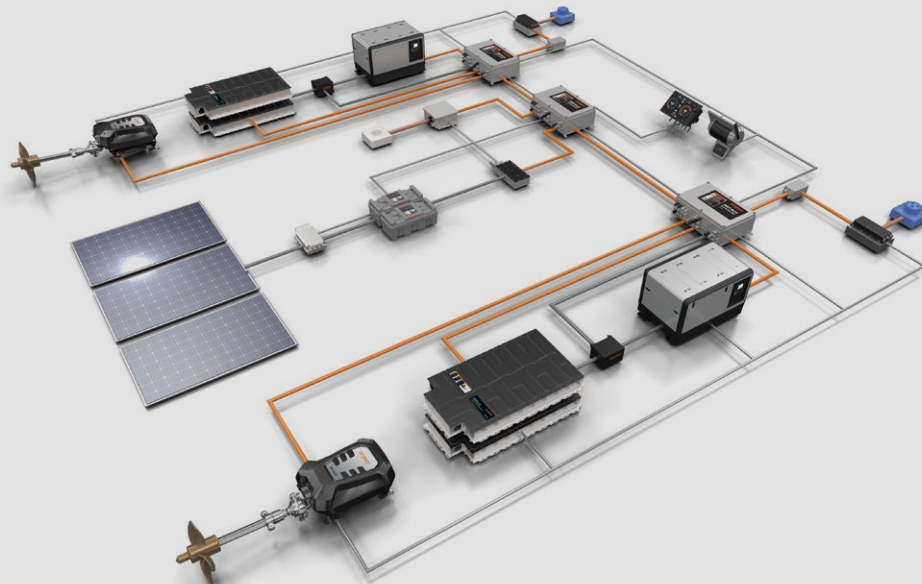


**LONG-TERM
RELIABILITY**



DEEP BLUE SYSTEM

Deep Blue is a fully integrated propulsion and energy management system – customizable to your specific needs and engineered to meet the rigors of the commercial marine environment. All the system components from the propeller to the high-tech user interface are perfectly matched and integrated to provide emission-free, quiet, and powerful propulsion.



DEEP BLUE HYBRID SYSTEM

We developed this integrated, modular system for commercial vessels that require longer range or have complex energy needs. The Deep Blue Hybrid energy management system monitors and controls each component's power demands, ensuring optimized collection and distribution of solar power (if equipped), high-capacity lithium-ion batteries for energy storage, and automatic generator backup.

EASY TO CUSTOMIZE FOR YOUR FLEET

Wherever your business takes you, we have the right components for your fleet and applications. Choose the perfect setup tailored to your needs!



**ELECTRIC
MOTORS**



BATTERIES



CONTROLS



**CHARGING
SOLUTIONS**

HIGH-VOLTAGE PRODUCT PORTFOLIO

ELECTRIC DRIVE SYSTEMS

Our highly efficient and powerful Deep Blue drives are available in three configurations and power classes: 25 kW, 50 kW, and 100 kW. You can combine up to two drives for a maximum performance of 200 kW.

HIGH-CAPACITY BATTERIES

Since 2005, we have pioneered lithium battery development for marine applications and offer the most comprehensive and integrated protection and safety features on the market. Choose your ideal battery chemistry and build battery banks up to 2.4 MWh.

CHARGING SOLUTIONS

Our charging options range from 3 to 80 kW input power. For greater flexibility and environmental impact you can choose solar integration or add a range extender.



Deep Blue 100 i 2500



Deep Blue 100 i 900



Deep Blue 25/50 i



Deep Blue 50/100 Thruster



Deep Blue 25/50 R

DEEP BLUE BATTERY PORTFOLIO



TECHNICAL DATA Deep Blue Battery 80

Nominal voltage	348 V
Chemistry	Lithium-Ion, LFP
Safety	IP67 ingress protection, venting, damping, IEC 62619 & IEC 62620
Capacity (usable)	78 kWh
Weight	550 kg
Dimensions	1800 x 853 x 236 mm



TECHNICAL DATA Deep Blue Battery 40

Nominal voltage	352 V
Chemistry	Lithium-Ion, NMC
Safety	IP67 ingress protection, venting, damping, IEC 62619 & IEC 62620
Capacity (usable)	38 kWh
Weight	284 kg
Dimensions	1666 x 993 x 173 mm



TECHNICAL DATA Deep Blue 22 kW AC Charger

Input power	22 kW
Typical efficiency	95%
Waterproof	IP67, IP6K9K
Weight	19 kg (charger), 10.5 kg (AC box)
Dimensions	705 x 106 x 359 mm



EASY ON YOUR BOTTOM LINE



INCREASED
UPTIME



LOWER
FUEL COSTS



LESS
MAINTENANCE

A FORMULA FOR GOOD BUSINESS

Switching to electric or hybrid propulsion offers more than sustainability benefits; it's a smart business choice as well. Discover why embracing new technology can be a strategic investment for both the future and your finances.

CLEAN AND EASY CHARGING

With electric propulsion, fueling up is as simple as plugging into shore power. Since there are no toxic or explosive fumes, you can charge while loading or unloading passengers or freight to save time and money.

FUTURE-PROOF YOUR BUSINESS

As environmental regulations tighten and carbon offset prices fluctuate, reducing your carbon footprint and emissions now helps you stay ahead of the curve. Future-proofing your fleet today ensures compliance with tomorrow's stricter standards.

SIGNIFICANT FUEL SAVINGS

Fuel costs can be a major expense. A 90 HP outboard motor burns up to 40 liters of fuel per hour, costing about €60 for a 4-hour trip. In contrast, charging a Deep Blue high-voltage battery costs between €3 and €12, cutting fuel costs by up to 95%. If your fuel expenses exceed €4,700 annually, switching to a Deep Blue system could start saving you money immediately.

LOWER MAINTENANCE COSTS

Electric drive systems require far less maintenance than traditional fossil-fuel engines. Fewer moving parts mean less wear and tear, which translates to lower maintenance costs and increased uptime.

LONG-TERM VALUE

The onboard computer gives you real-time insights into battery health. And long-term peace of mind. Deep Blue systems come with an up to 10-year capacity warranty, ensuring that the batteries retain at least 80% of their original capacity even after years of use.

IT'S TIME TO GO ELECTRIC

From Bangkok to Berlin and Ottawa to Osaka, passenger and work boats powered by Torqeedo electric drive systems have been successfully certified and approved for commercial operation. We are happy to share our experience across various markets to guide you through the certification process.

With Torqeedo supplying the entire electric drive train and energy management system, you benefit from having a single point of contact for system responsibility. Deep Blue components and systems are designed to meet ES-TRIN, IACS, and DNV requirements, adhering to the high standards of our ISO 9001-certified engineering and quality processes. This allows you to enjoy the advantages of electric mobility without getting lost in complex regulations and bureaucracy.



CERTIFICATION MADE EASY



UNMATCHED
SAFETY
STANDARDS



SYSTEM
ACCOUNTABILITY



20 YEARS
OF EXPERTISE



EXCELLENT
QUALITY

EASY ON THE PLANET

Electric and hybrid propulsion have local and global benefits: Explore how switching to new technology can positively impact you, your community, and the environment.

HEALTHIER CLIMATE

Reduce your carbon footprint by up to 95%, depending on the energy mix used for charging, and thus contribute to a more sustainable future.

ZERO LOCAL EMISSIONS

A diesel-powered ferry produces air pollution equivalent to that of 40 diesel buses. Repowering with fully electric drives eliminates local emissions, improving urban air quality, and benefiting human health.

PEACE AND QUIET

Electric drives are virtually silent, enhancing crew well-being and passenger comfort with no exhaust, vibration, or fumes. They also allow operation in noise-sensitive and urban areas where diesel engines may be restricted.

CLEAN WATERS

Even a small fuel spill can contaminate thousands of liters of water, causing environmental damage and operational delays. Electric drives eliminate the risk of fuel and oil spills while requiring less maintenance.

ENERGY INDEPENDENCE

Integrating solar panels, fuel cells, or hydrogenation on large commercial vessels enables you to produce your own clean energy, reducing dependence on fluctuating fuel prices and providing long-term cost stability.

LONGER LIFESPAN

Electric systems typically have a longer operational lifespan than traditional diesel engines and thus contribute to a reduced total cost of ownership.



EASY TO OWN

Wherever you want to take your electric fleet, we're here to support you every step of the way. Here's why so many boatbuilders, shipyards, and business owners trust Torqeedo:



REMOTE DIAGNOSTICS

Benefit from cutting-edge wireless connectivity that not only enables seamless updates but also allows comprehensive remote diagnostics.

This capability ensures swift resolutions to both hardware and software issues, significantly enhancing operational efficiency and minimizing downtime.



EXPERT ASSISTANCE

Get immediate help from Torqeedo technicians and our local service partners.



PERSONALIZED SERVICE

With a Premium Service agreement, enjoy on-site assistance within 18-48 hours.



E-MAIL SUPPORT

Schedule maintenance or receive remote guidance from our engineers by e-mail.



SPARE PARTS AVAILABILITY

Our industrialized serial production ensures quick and easy access to a wide range of spare parts.

For more detailed information please contact commercial@torqeedo.com.