E-Series

Lithium Iron Phosphate Battery

High-performance and durable lithium batteries for electric boating

Models

E40
2048 Wh / 48 V

39 cm
15.4 in

20.7 cm
8.2 in

42 cm / 16.5 in

E80
4096 Wh / 48 V

44 cm
17.3 in

21.2 cm
8.4 in

55.5 cm / 21.9 in

E175
8960 Wh / 48 V

56.5 cm
22.2 in

27.7 cm
10.9 in

50 cm / 19.7 in

Why E-Series Battery

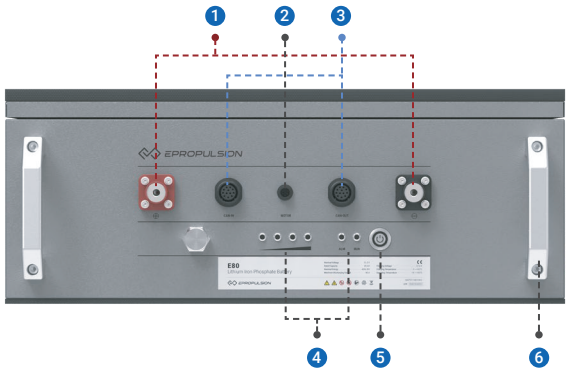
Affordable cost
Unit price is as low as $0.5 per watt-hour.

High energy density
70% less weight and space than the normal lead-acid battery.

Long life cycles
3000 cycles at 80% DOD.

Made for ePropulsion motors
Data synced with ePropulsion motors to apply smart operation strategy.

Design



1. Discharge and charge port
2. Motor communication port
3. CAN communication port
4. State of charge indicator lights
5. Power button
6. Removable lift handle

E-Series Battery Charger

Wide Input Voltage Range
From 85 VAC to 265 VAC. It's available to use worldwide.

Parallel Connection
Up to 8 units can be used in parallel connection. It's flexible enough to configure for a large capacity battery set.

* The charging power varies between different input voltages. At 220V, the output current is 30A. At 110V, approximately 20A.

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E40

E80

E175

	E40	E80	E175
Basic			
Chemistry	Lithium Iron Phosphate	Lithium Iron Phosphate	Lithium Iron Phosphate
Rated Voltage	51.2 V	51.2 V	51.2 V
Capacity	2048 Wh / 40 Ah	4096 Wh / 80 Ah	8960 Wh / 175 Ah
Battery Life	3,000 cycles at 80% DOD	3,000 cycles at 80% DOD	3,000 cycles at 80% DOD
Physical			
Weight	28 kg / 61.7 lbs	53 kg / 116.8 lbs	87 kg / 191.8 lbs
Dimensions	42 x 39 x 20.7 cm 16.5 × 15.4 × 8.2 inches	55.5 × 44 × 21.2 cm 21.9 × 17.3 × 8.4 inches	50 × 56.5 × 27.7 cm 19.7 × 22.2 × 10.9 inches
Terminal Type	M8	M8	M8
Electrical			
Cut-off Voltage	41.6 V	41.6 V	41.6 V
Final Charging Voltage	57.6 V	57.6 V	57.6 V
Max Continuous Discharging Current	40 A	80 A	150 A
Serial Connection	✕	✕	✕
Parallel Connection	Up to 16	Up to 16	Up to 16
Cell Configuration	16S1P	16S2P	16S1P
Charger*	E-Series Battery Charger	E-Series Battery Charger	E-Series Battery Charger
Charging Time (110V)	2 Hrs	4 Hrs	One charger: 9 Hrs Two chargers in parallel: 4.5 Hrs
Charging Time (220V)	2 Hrs	3 Hrs	One charger: 6 Hrs Two chargers in parallel: 3 Hrs
Operational			
Charging Temperature	0°C to 55°C 32˚F to 131˚F	0°C to 55°C 32˚F to 131˚F	0°C to 55°C 32˚F to 131˚F
Discharging Temperature	-10°C to 45°C 14˚F to 113˚F	-10°C to 45°C 14˚F to 113˚F	-10°C to 45°C 14˚F to 113˚F
Mounting Position	Upright or either long side	Upright or either long side	Upright or either long side
Features			
Communication	Available: CAN-Bus for Parallel, RS485 for ePropulsion motors. N/A: NMEA 2000	Available: CAN-Bus for Parallel, RS485 for ePropulsion motors. N/A: NMEA 2000	Available: CAN-Bus for Parallel, RS485 for ePropulsion motors. N/A: NMEA 2000
Shipping Classification	UN3480, Class 9, UN38.3 Certified	UN3480, Class 9, UN38.3 Certified	UN3480, Class 9, UN38.3 Certified
Battery Management System	✓	✓	✓
Approvals	CE, CCS	CE, CCS	CE, CCS
Warranty (Non-Commercial Use)	2 years	2 years	2 years

* 3rd-party chargers are not recommended.