

E-Series

Lithium Iron Phosphate Battery

High-performance and durable lithium batteries for electric boating.

Models

E40

2048 Wh / 48 V



E80

4096 Wh / 48 V



E175

8960 Wh / 48 V



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

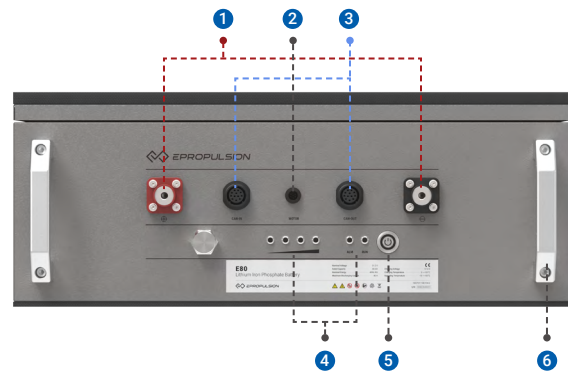
3000 cycles at 80% DOD.



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

Chargers



10A Charger



20A Charger



40A Charger



For safety, ePropulsion E40, E80, and E175 batteries can only be charged by original ePropulsion chargers.

*All chargers are available with 110V and 220V.

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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	48 kg / 105.8 lbs	87 kg / 191.8 lbs
Dimensions	42 x 39 x 20.7 cm 16.5 x 15.4 x 8.2 inches	55.5 x 44 x 21.2 cm 21.9 x 17.3 x 8.4 inches	50 x 56.5 x 27.7 cm 19.7 x 22.2 x 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*	ePropulsion Original 10A or 20A Charger	ePropulsion Original 20A or 40A Charger	ePropulsion Original 20A or 40A Charger
Charging Time	5 hrs (10A Charger) 2.5 hrs (20A Charger)	5 hrs (20A Charger) 2.5 hrs (40A Charger)	9 hrs (20A Charger) 5 hrs (40A Charger)
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 55°C 14°F to 131°F	-10°C to 55°C 14°F to 131°F	-10°C to 55°C 14°F to 131°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.