

SHIP CONTROL systems

48V battery pack - Lithium Iron-Phosphate (LiFePO₄) - 25Ah

- High Service Life: 3000 cycles and more (see chart)
- **Deep discharge** allowed up to 100 %
- Ultra safe **Lithium Iron Phosphate** chemistry (no thermal run-away, no fire or explosion risks)
- Embedded BMS (Battery Management System): improve lifespan AND secure the battery
- No Lead, no rare earths, no acid, no degassing
- Calendar life > 10 years
- Excellent **temperature** robustness (-20 °C up to +60 °C)

- Flexible deployment: up to 10 packs in parallel and 2 in serial
- **Constant power** during discharge (very low internal resistance)
- Very low Peukert's losses (energy efficiency >98 %)
- Very low self discharge (<3 % per month)
- No memory effect
- About **50 % lighter** and **40% smaller** than equivalent Lead-AGM battery with same usable energy
- Certification: CE, RoHS, UN 38.3, UL and CB

Technical Specifications

Electric	Nominal voltage	51.2 V
	Nominal capacity	25 Ah
	Stored energy	1280 Wh
	Internal resistance	≤ 50 mΩ
	Cycles	>3000 cycles (see chart)
	Self discharge	< 3% per month
	Energy efficiency	> 98 %
Standard Charge	Charge voltage	57.6 V ± 0.8V
	Charge mode	CC/CV: Constant Current / Constant Voltage
	Continuous charge current / Maximum charge curft205 A / 25 A	
	BMS charge cut-off voltage	59.2 V ± 0.4V
Standard Discharge	Continuous discharge current	50 A (2.56 kW)
	Maximum discharge current (< 30s)	100 A (5.12kW)
	BMS discharge cut-off voltage	40V
Environment	Charge temperature range	0°C to +50°C
	Discharge temperature range	-20°C to +60°C
	Storage temperature	0°C to +50°C @60±25% relative humidity
	IP protection level	IP 66
Mecanical	Cell assembly	26650 - 16S8P
	Casing material	ABS
	Dimensions	L: 260mm x P: 168mm x H: 212 mm
	Weight	12.6 kg
	Terminal	M8



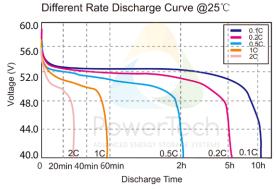
APPLICATIONS

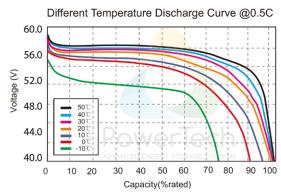
- Electrical vehicules and utilities
- Solar and wind energy storage
- Marine
- Street lightning
- CCTV and security camera
- UPS, electric back-up
- Telecom
- Medical equipments

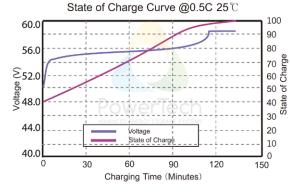
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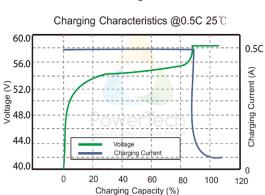


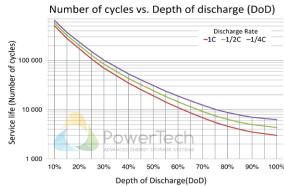
Charts and curves

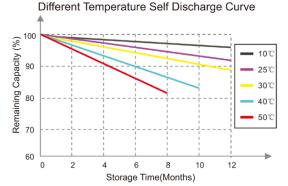




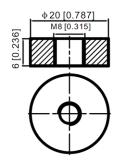


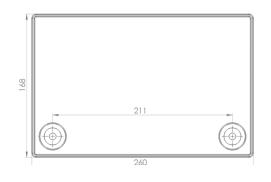


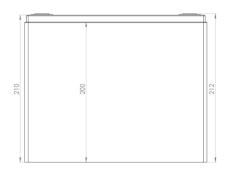


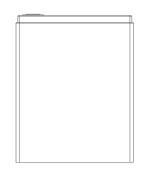


Dimensions











Power Brick +

systems

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