

SHIP NOL

12V battery pack - Lithium Iron-Phosphate (LiFePO₄) - 20Ah

- **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 16 packs in parallel and 4 in series
- **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

Technical Specifications

Electric	Nominal voltage	12.8V
	Nominal capacity	20 Ah
	Stored energy	256 Wh
	Internal resistance	≤ 50mΩ
	Cycles	>3000 cycles (see chart)
	Self discharge	< 3% per month
	Energy efficiency	> 96%
Standard Charge	Charge voltage	14.4V ± 0.2V
	Charge mode	CC/CV : Constant Current / Constant Voltage
	Continuous charge current / Maximum charge current	10 A / 20 A
	BMS charge cut-off voltage	14.8V ± 0.1V
Standard Discharge	Instant peak discharge current	180±30 A (max 100mS)
	Continuous discharge current	40 A (512 W)
	Maximum discharge current (< 30s)	60 A (768 W)
	BMS discharge cut-off voltage	10 V
Environment	Charge temperature range	0°C o +60°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
Mechanical	Cell assembly	26650 - 4S6P
	Casing material	ABS
	Dimensions	L: 180mm x P: 76mm x H: 168 mm
	Weight	2.80 kg
	Terminal	M5 bolt

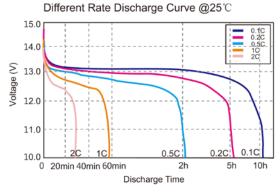


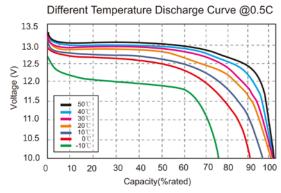
APPLICATIONS

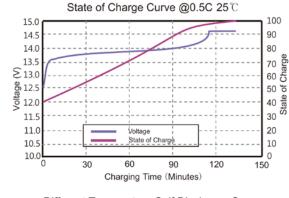
- Electrical vehicules and utilities
- Robotics and AGVs
- Solar and wind energy storage
- Marine
- Street lightning
- CCTV and security camera
- UPS, electric back-up
- Telecom
- Medical equipments

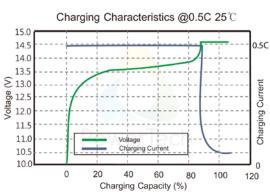


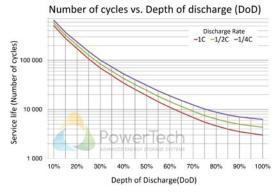
Charts and curves

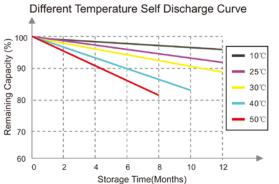




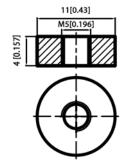


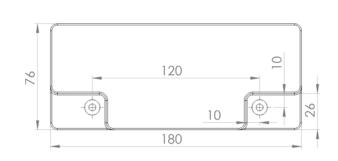


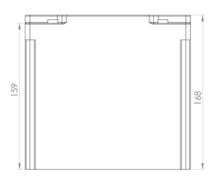


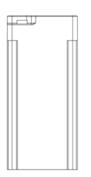


Dimensions











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