PowerBrick+ 12v Lithium-Ion battery pack

12V battery pack - Lithium Iron-Phosphate (LiFePO4) - 30Ah

- 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)

Technical Specifications

- 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

Electric	Nominal voltage	12.8V
	Nominal capacity	30 Ah
	Stored energy	384 Wh
	Internal resistance	≤ 50mΩ
	Cycles	>3000 cycles (see chart)
	Self discharge	< 3% per month
	Energy efficiency	> 96%
Standard Charge	Charge voltage	$14.4V \pm 0.2V$
	Charge mode	CC/CV : Constant Current / Constant Voltage
	Continuous charge current / Maximum charge curileIn& / 30 A	
	BMS charge cut-off voltage	$14.8V \pm 0.1V$
Standard Discharge	Continuous discharge current	45 A (576W)
	Maximum discharge current (< 30s)	70 A (896 W)
	BMS discharge cut-off voltage	10 V
Environment	Charge temperature range	0°C to +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
Mecanical	Cell assembly	26650 - 4S8P
	Casing material	ABS
	Dimensions	L : 180mm x P : 76mm x H : 168 mm
	Weight	3.44 kg
	Terminal	M5

SHIP ON CONTROL

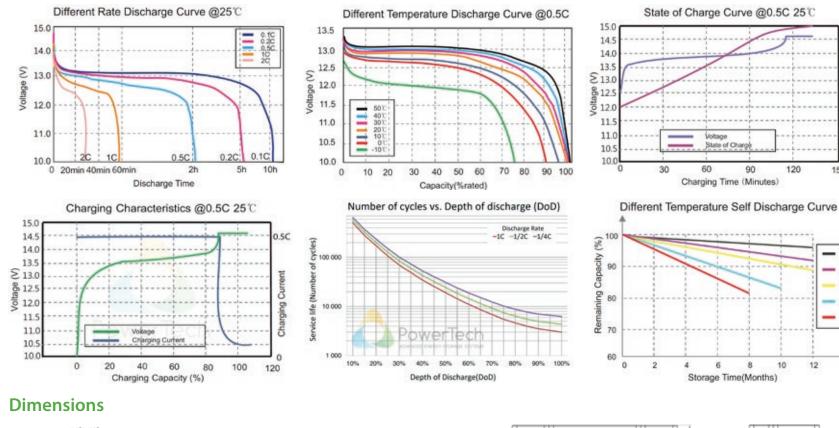


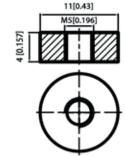
APPLICATIONS

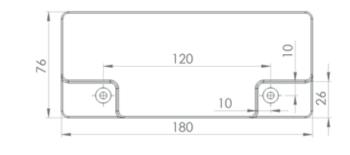
- Electrical vehicules and utilities
- Solar and wind energy storage
- Marine
- Street lightning
- CCTV and security camera
- UPS, electric back-up
- Telecom
- Medical equipments
- • •

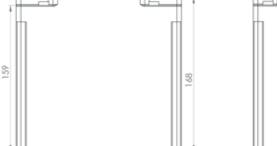


Charts and curves











THE ROMARK BYICK +

100

90

80

70

60 5

50 5

40 eterso 30

20

10

0

150

- 100

250

- 400

- 50°C

300



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