

PowerBrick

Lithium-Ion battery

Smart

24V-50Ah-AB-BT

24V battery pack - Lithium Iron-Phosphate (LiFePO₄) - 50Ah

- **High Service Life** : 3000 cycles and more (see chart)
- **High performance active cell balancing (up to 1A current)**
- **Bluetooth monitoring (SOC, cell voltage, SOH, etc.)**
- **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 2 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

Technical Specifications

Electric	Nominal voltage / Nominal capacity	25.6V / 50Ah
	Stored energy	1280 Wh
	Volumetric energy density / Specific energy	138.2 Wh/L / 123.1 Wh/Kg
	Internal resistance	≤ 50mΩ
	Cycles	>3000 cycles (see chart)
	Self discharge	< 3% per month
	Energy efficiency	> 98%
Standard Charge	Charge voltage	28.8 V ± 0.4 V (Optional floating voltage : 26.72V max)
	Charge mode	CC/CV : Constant Current / Constant Voltage
	Continuous charge current / Maximum charge current	25 A / 50 A
	BMS charge cut-off voltage	29.4 V ± 0.2V
Standard Discharge	Instant peak discharge current	350 A ± 50 A (max 300mS)
	Continuous discharge current	75 A (1.92 kW)
	Maximum discharge current (< 30s)	115 A (3.0 kW)
	BMS discharge cut-off voltage	20 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 65
Mechanical	Type of cells	Cylindrical
	Casing material	ABS
	Dimensions	L : 260mm x P : 168mm x H : 212 mm
	Weight	10.4 kg
	Terminal	M8 bolt



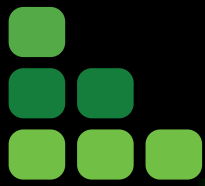
APPLICATIONS

- **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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systems

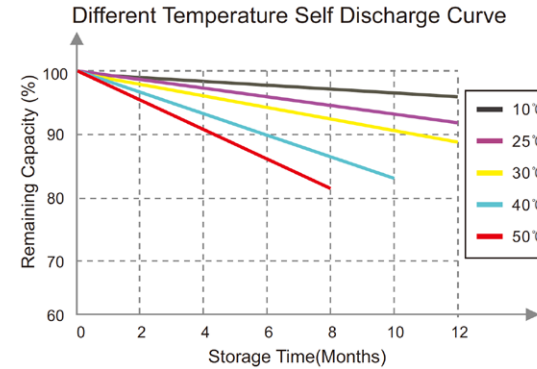
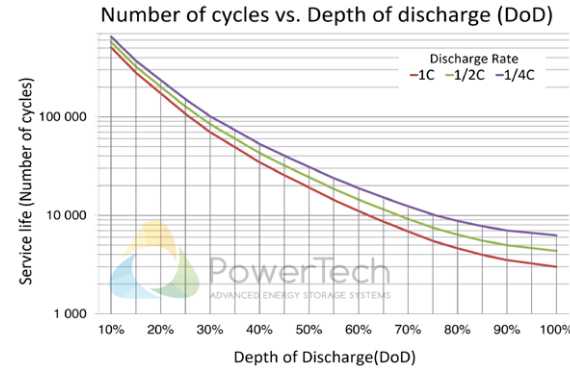
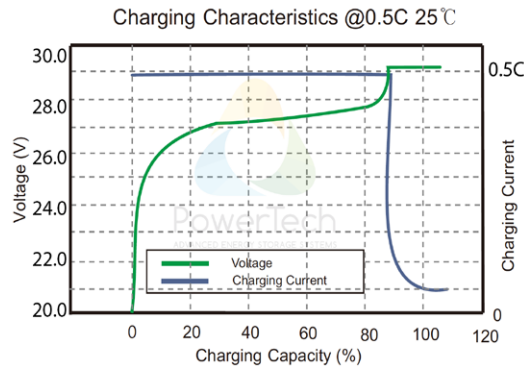
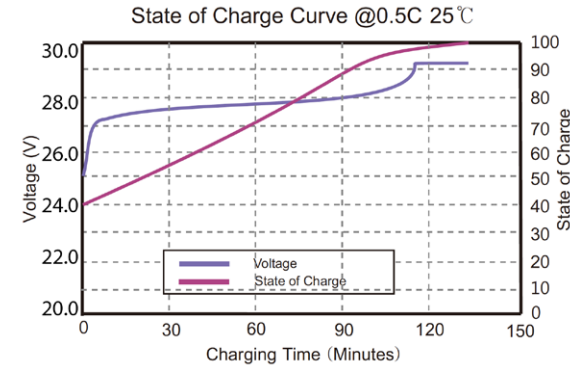
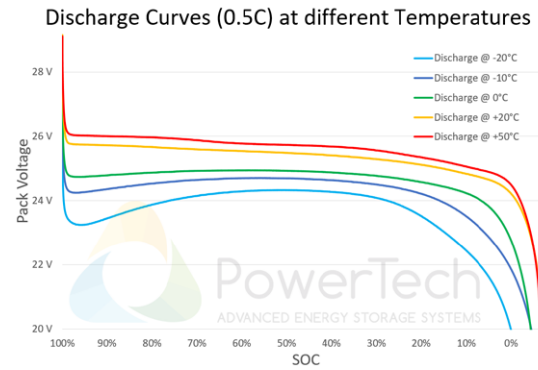
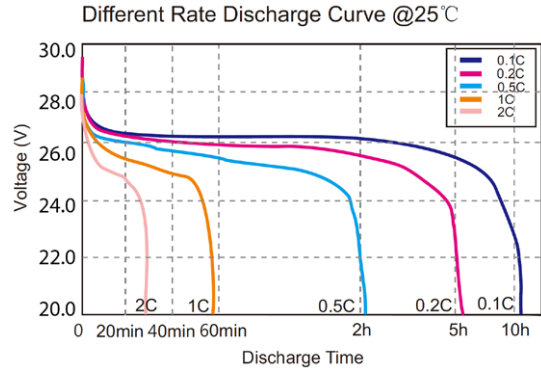


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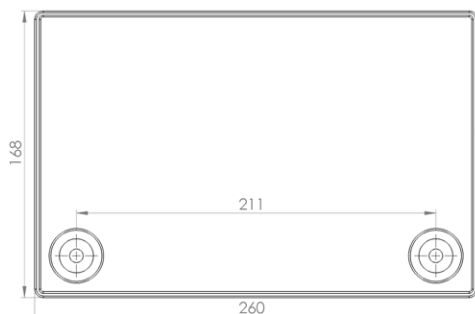
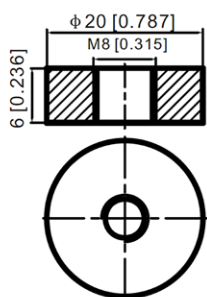
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Charts and curves



Dimensions



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SAS au capital de 1 000 000 Euros
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