



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)
- **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**

Technical Specifications

Electric	Nominal voltage	12.8 V
	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	14.4 V ± 0.2V
	Charge mode	CC/CV : Constant Current / Constant Voltage
	Continuous charge current / Maximum charge current	15 A / 30 A
	BMS charge cut-off voltage	14.8 V ± 0.1V
Standard Discharge	Instant peak discharge current	180A ± 30 A (max 100mS)
	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 65
Mechanical	Type of cells	Cylindrical
	Casing material	ABS
	Dimensions	L : 180mm x P : 76mm x H : 168 mm
	Weight	3.44 kg
	Terminal	M5 bolt



APPLICATIONS

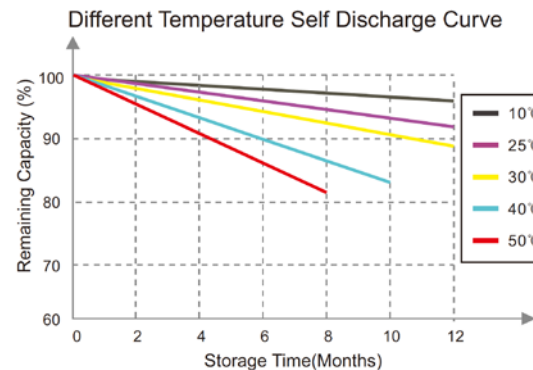
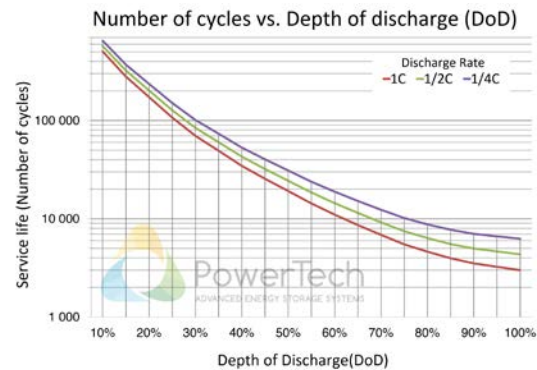
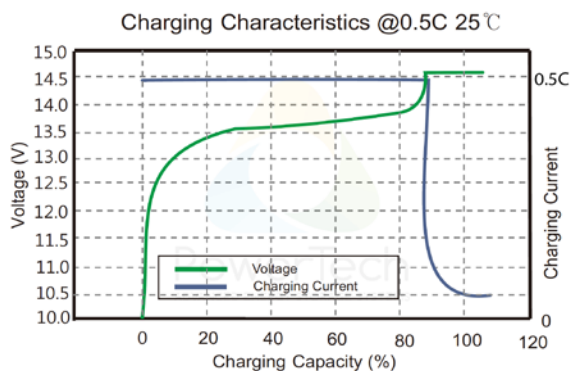
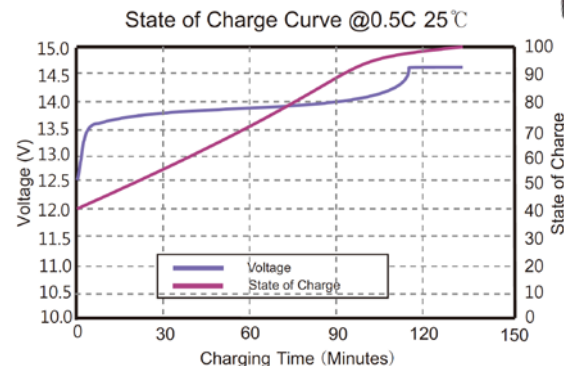
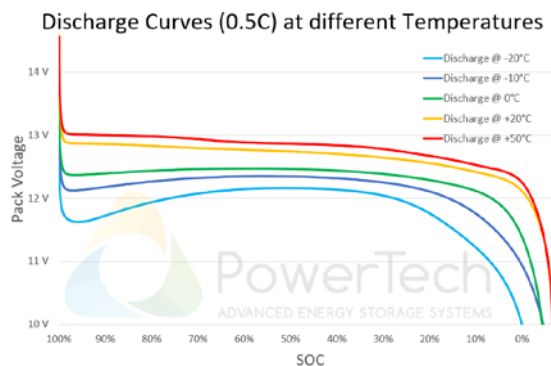
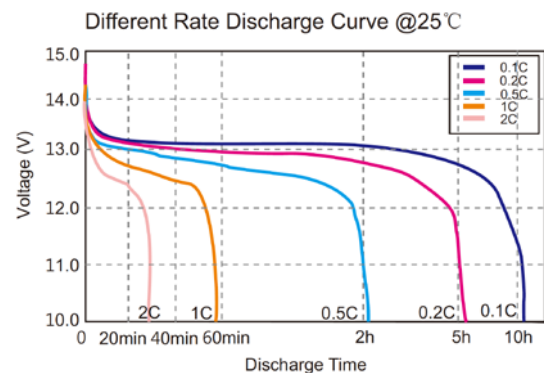
- **Electrical vehicles and utilities**
- **Robotics and AGVs**
- **Solar and wind energy storage**
- **Marine**
- **Street lightning**
- **CCTV and security camera**
- **UPS, electric back-up**
- **Telecom**
- **Medical equipments**



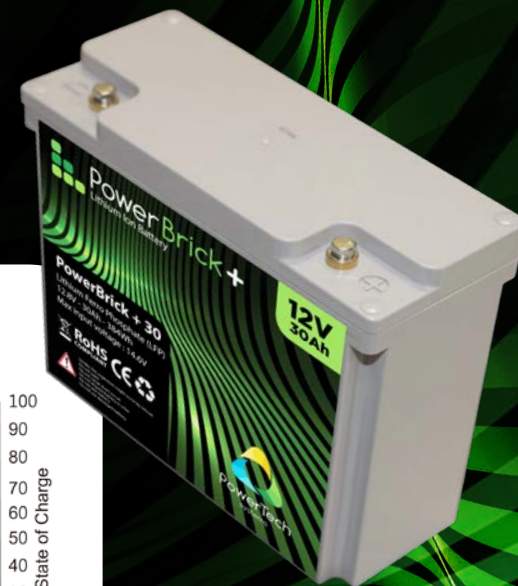
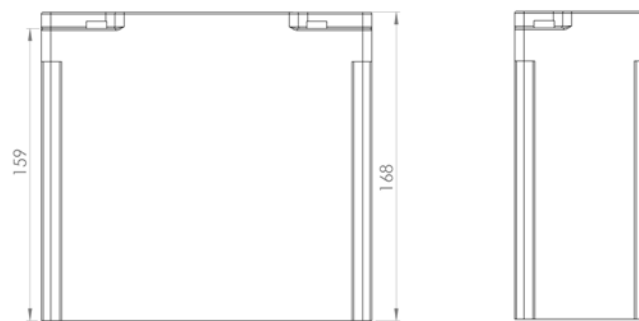
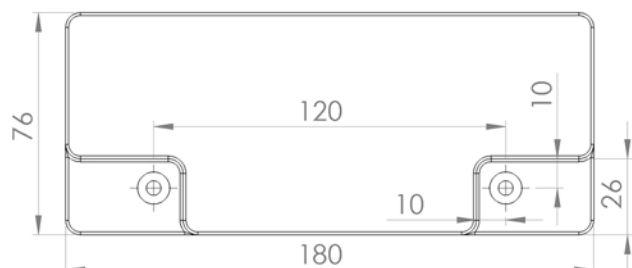
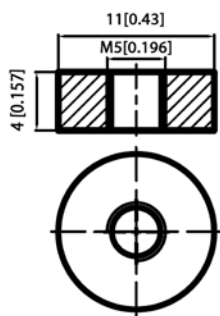
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Charts and curves



Dimensions



PowerTech
systems

V1.5

PowerTech Systems SAS
ZA Charles Renard - Batiment A1
6 Bld Georges Guynemer
78210 ST CYR L'ECOLE - France

SAS au capital de 1 000 000 Euros
SIREN : 793926577 - TVA : FR33793926577

www.powertechsystems.eu
+33 185 400 970
contact@powertechsystems.eu