



PowerBrick Connect

Lithium-Ion battery

Solid State

12V-212Ah-SS-AB-CAN-H

12V Solid-State battery pack - LiFePO₄ - 212Ah - 2.71kWh

- **High lifespan: 4500 cycles** and more (see chart)
- **Communication by CAN Bus + RS 485** to retrieve all aggregated informations from battery pack (**up to 16 packs in parallel**)
- **Ultra safe Solid-State Lithium Iron Phosphate** chemistry (no thermal run-away, no fire or explosion risks)
- **Active Balancing** for fast, efficient cell voltage equalization
- **Remote monitoring by Bluetooth** (SOC, cell voltage, SOH, etc.)
- **Fast recharge** in less than one hour
- **Embedded BMS** (Battery Management System) : **improve lifespan and safety of the battery**
- **Strict cell matching** for pack consistency. Laser cell welding
- **Cell heating system** for use in cold weather (down to -20°C)
- **Precharge system** for high capacitance loads
- No **Cobalt**, no **Manganese**, no **Nickel**, no **rare earths**
- Calendar life > **10 years**
- Excellent **temperature** robustness (-20 °C up to +60 °C)
- **Constant power** during discharge (very low internal resistance)
- **Very low Peukert's losses** (energy efficiency >98 %)
- **Very low self discharge** (<3 % per month)
- **Deep discharge** allowed up to 100 %
- **No memory effect**
- About **50 % lighter** and **40% smaller** than equivalent Lead-AGM battery with same usable energy
- **Certification : CE, RoHS, UN 38.3, Cell : IEC 62619 - IEC 62620**

Technical Specifications

Electric	Nominal voltage / Nominal capacity	12.8V / 212Ah
	Stored energy	2714 Wh
	Volumetric energy density / Specific energy	121.2 Wh/L / 123.9 Wh/Kg
	Internal resistance	≤ 10mΩ
	Cycles	> 4500 cycles (see chart)
	Self discharge	< 3% per month
	Energy efficiency	> 98%
Standard Charge	Charge voltage	14.4 V ± 0.2 V (Optional floating voltage : 26.72V max)
	Charge mode	CC/CV : Constant Current / Constant Voltage
	Continuous charge current / Maximum charge current	180A / 200A
	BMS charge cut-off voltage	14.8V ± 0.1V
Standard Discharge	Instant peak discharge current	800A (300 ms)
	Continuous discharge current	200A
	Maximum discharge current (< 30s)	250A
	BMS discharge cut-off voltage	10V
Environment	Charge temperature range	0°C to +55°C
	Discharge temperature range	-20°C to 60°C
	Storage conditions	0°C to +50°C @60±25% relative humidity
	IP protection level	IP65
Mechanical	Type of cells	Solid-State LiFePO ₄ cells
	Casing material	ABS
	Dimensions	505x185x242 mm
	Weight	21.9 kg
	Terminal	M8 for power - IP67 M12 connector for CAN / RS485



APPLICATIONS :

-  **Electrical vehicles and utilities**
-  **Industrial carts and forklifts**
-  **Marine applications**
-  **Street lightning**
-  **CCTV, IOT, standalone apps**
-  **Robotics and AGVs**
-  **Renewable energy storage**

and much more...





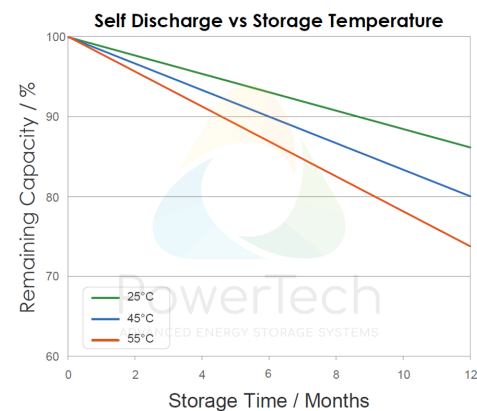
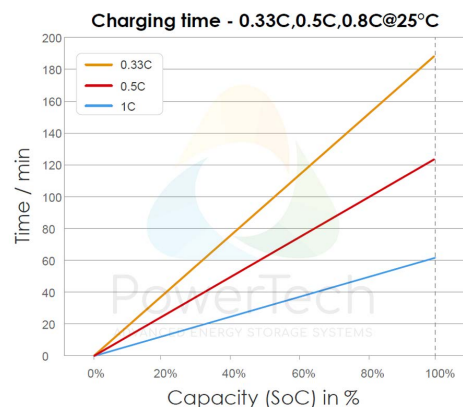
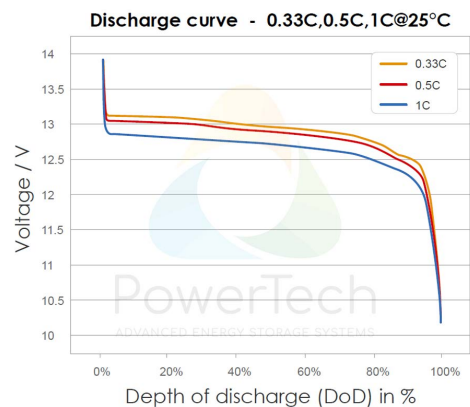
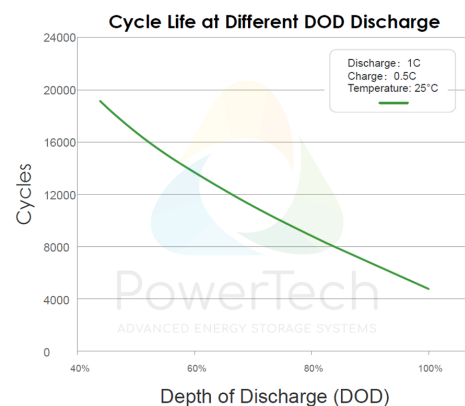
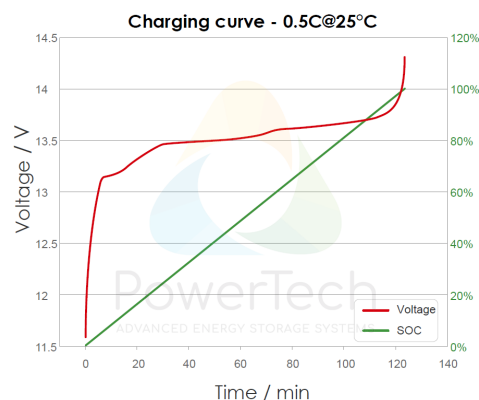
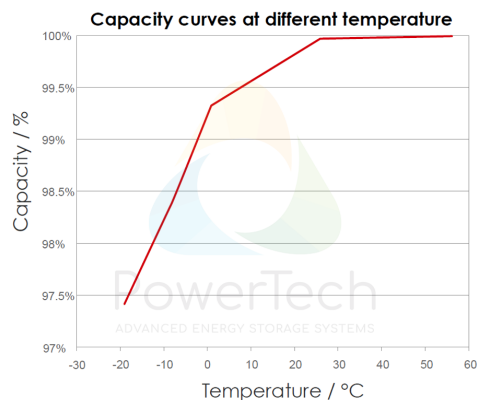
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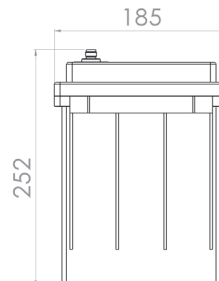
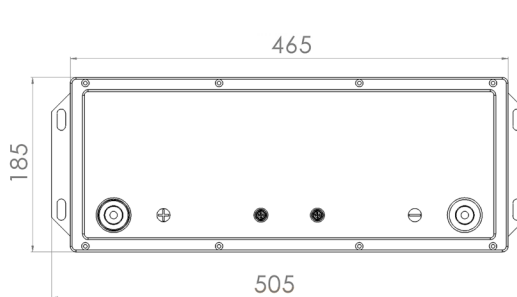
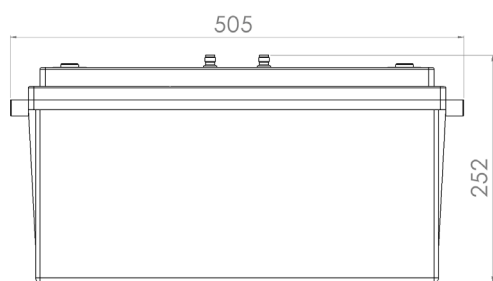
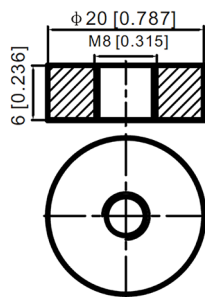
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Charts and curves



Dimensions



PowerTech
systems

V1.6

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