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

- High lifespan: two thousand 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 heavy metal, no toxic element
- Calendar life > 10 years
- Excellent temperature robustness (-20 °C up to +60 °C)

Technical Specifications

**Electric**
- Nominal voltage: 12.8V
- Nominal capacity: 20 Ah
- Stored energy: 256 Wh
- Internal resistance: \(\leq 50\) mΩ
- Cycles: >2000 cycles (see chart)
- Self discharge: < 3% per month
- Energy efficiency: > 96%

**Standard Charge**
- Charge voltage: 14.6V ± 0.1V
- Charge mode: CC/CV: Constant Current / Constant Voltage
- Continuous charge current / Maximum charge current: 10 A / 20 A
- BMS charge cut-off voltage: 14.6V ± 0.1V

**Standard Discharge**
- Continuous discharge current: 40 A
- Maximum discharge current: 60 A (< 5s)
- BMS discharge cut-off voltage: 10 V

**Environment**
- Charge temperature range: 0°C à 45°C @60±25% relative humidity
- Discharge temperature range: -20°C à 60°C @60±25% relative humidity
- Storage temperature: 0°C à 40°C @60±25% relative humidity
- IP protection level: IP 66

**Mecanical**
- Cell assembly: 26650 - 4S6P
- Casing material: ABS
- Dimensions: L : 180mm x P : 76mm x H : 168 mm
- Weight: 2.80 kg
- Terminal: M5

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

Different Rate Discharge Curve @25°C

Different Temperature Discharge Curve @0.5C

State of Charge Curve @0.5C 25°C

Charging Characteristics @0.5C 25°C

Different DoD Discharge Cycle Life @1C

Different Temperature Self Discharge Curve

Dimensions

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