

ASTERION LFP Plastic 24V54Ah li-ion battery specification

Li-ion battery typename	ASTERION LFP Plastic 24V54Ah
Electrochemical system	LiFePO4
Rated voltage, V	25,6
Rated capacity, Ah	54
Li-Ion cells used	Cylindrical LFP 3,2V 6000mA
Lifetime, cycles	≥ 3000 at DoD 80% at 25°C
Rated discharging current, A	27
Max. continuous discharging current, A	50
Pulse discharging current, A	120, no longer than 2 s
Rated charging current, A	≤25
Cells balancing (by BMS)	Yes
Charging temperature, °C	0..+45
Operation temperature, °C	-20..+60
Dimensions (LxWxH), mm	329x172x233
Weight, kg	13,5
Charging device	ASTERION LFP Charger 29.2V20A
Battery body material	Plastic
Protection degree	IP65



Protection functions:

Short circuit protection in load and charge lines;
Overcurrent protection during charging and discharging;
Cells overcharge/deep discharge protection;
High and low temperature protections.

Battery features

Protections: standard set of protections.

BMS: integrated, passive.

Battery parallel connections: up to 2 batteries.

Battery series connections: prohibited.

Recommended charging devices: Delta LFP Charger.

Monitoring: via Bluetooth connection with an Android/iOS smartphone: SoC, real-time current, voltage and temperature values, alarm.

Applications

Application:

Cleaning machines (scrubber driers, sweeping machines), special vehicles (mobile pallet wrappers), mini electric vehicles, electric motor boats, energy storage systems.