RPower LFP24500
(25.6V 50Ah LiFePO4 Battery)

RP-TECHNIK
PART OF RP-GROUP

EAN: 4260349822152

Number of Cycles vs. DOD

Cycle life with DOD at 25℃，0.5C
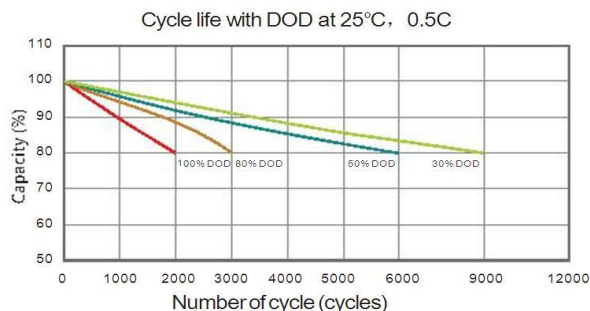
Cycle Life in Relation to Temperature
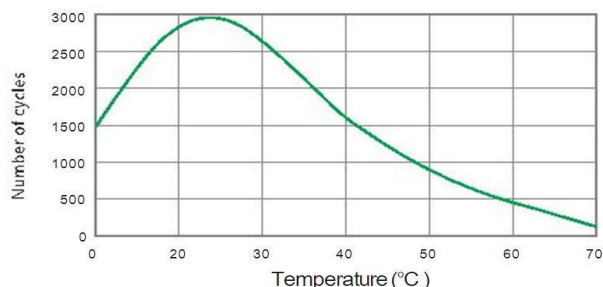
Specifications

Nominal Voltage		25.6V
Nominal Capacity		50Ah
Specific Energy		1280Wh
Dimensions (±2mm)	Length	330mm (13.0inch)
	Width	172mm (6.77inch)
	Height	215mm (8.46inch)
	Total Height	220mm (8.66inch)
Approx. Weight (±5%)		10.80kg (23.81lbs)
Terminal		M8
Internal resistance		≤15mΩ@100%SOC
Voltage window		21.60 to 29.20V
Max. continuous charge current		50A
Max. continuous discharge current		50A
Peak discharge current		80A (10sec.)
Recommended charge current		25A
Recommended discharge current		25A
Charge current cut-off		1.5A
Cycle life		≥2.000 Cycles
Operating temperature	Charge	10℃ to 45℃
	Discharge	-20℃ to 55℃
Storage temperature		20℃ to 30℃
Storage duration		12 months at 25℃
Case material		ABS
Cell type chemistry		Prismatic LiFePO4
Max. series connection*		1 (Battery)
Max. parallel connection*		4 (Batteries)

*series and parallel connection at the same time is not possible

Temperature Effects on Capacity
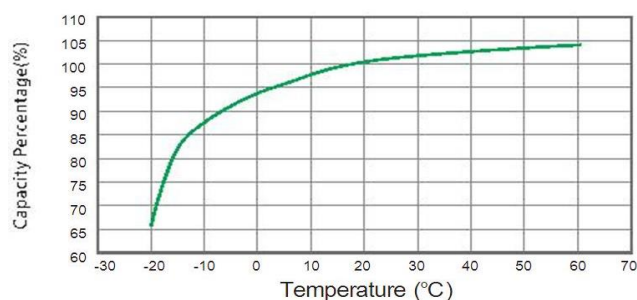
BMS Characteristics

Primary charging protection	Current: 55~65A
	Delay time: 30±2S
Secondary charging protection	Current: ≥65A
	Delay time: 2±1S
Primary discharging protection	Current: 55~85A
	Delay time: 15±2S
Secondary discharging protection	Current: 85~150A
	Delay time: 2±1S
Over-charge voltage protection	Voltage: >29.6±0.2V
	Delay time: ≤3S
Over-discharge voltage protection	Voltage: <19.2V±0.2V
	Delay time: ≤3S
High Temperature Protection	Charging: 65±3℃; Recover: 60±3℃
	Discharging: 65±3℃; Recover: 60±3℃
Low Temperature Protection	Charging: 0±3℃; Recover: 3±3℃
	Discharging: -20±3℃;Recover: -15±3℃

Constant Current Discharge Data (Ampere / Battery, 25°C)

Cut-off voltage (21.6V)	1h	2h	3h	5h	10h
	50A	25A	16.6A	10A	5A

Constant Power Discharge Data (Watt / Battery, 25°C)

Cut-off voltage (21.6V)	1h	2h	3h	5h	10h
	1150W	580W	388W	234W	118W