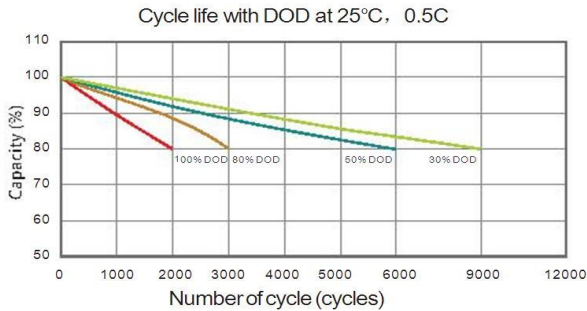


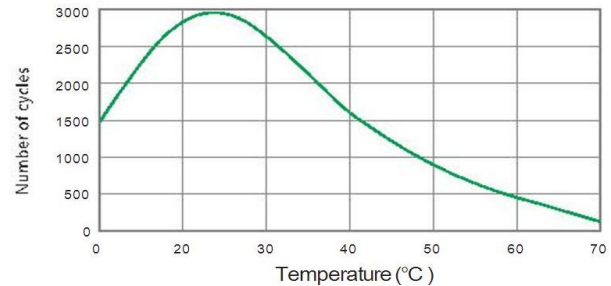
RPower LFP12300

(12.8V 30Ah LiFePO4 Battery)

Number of Cycles vs. DOD



Cycle Life in Relation to Temperature

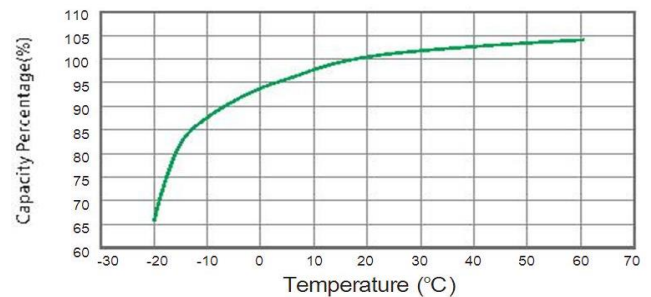


Specifications

Nominal Voltage	12.8V	
Nominal Capacity	30Ah	
Specific Energy	384Wh	
Dimensions (±2mm)	Length	166mm (6.54inch)
	Width	175mm (6.89inch)
	Height	125mm (4.92inch)
	Total Height	125mm (4.92inch)
Approx. Weight (±5%)	3.70kg (8.16lbs)	
Terminal	M5	
Internal resistance	≤30mΩ@100%SOC	
Voltage window	10.80 to 14.60V	
Max. continuous charge current	30A	
Max. continuous discharge current	30A	
Peak discharge current	80A (10sec.)	
Recommended charge current	15A	
Recommended discharge current	15A	
Charge current cut-off	0.9A	
Cycle life	≥2.000 Cycles	
Operating temperature	Charge	10°C to 45°C
	Discharge	-20°C to 55°C
Storage temperature	20°C to 30°C	
Storage duration	12 months at 25°C	
Case material	ABS	
Cell type chemistry	Cylindrical LiFePO4	
Max. series connection*	4 (Batteries)	
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: 40-60A
	Delay time: 15±2S
Secondary charging protection	Current: ≥60A
	Delay time: ≤3s
Primary discharging protection	Current: 45-80A
	Delay time: 15±2S
Secondary discharging protection	Current: >80A
	Delay time: ≤3s
Over-charge voltage protection	Voltage: > 14.8±0.2V
	Delay time: ≤3s
Over-discharge voltage protection	Voltage: < 9.6±0.2V
	Delay time: ≤3s
High Temperature Protection	Charging: 65±3°C; Recover: 60±3°C
	Discharging: 65±3°C; Recover: 60±3°C
Low Temperature Protection	Charging: 0±3°C; Recover: 3±3°C
	Discharging: -20±3°C; Recover: -15±3°C

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

Cut-off voltage (10.8V)	1h	2h	3h	5h	10h
		30A	15A	10A	6A

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

Cut-off voltage (10.8V)	1h	2h	3h	5h	10h
		--	174W	117W	70.5W