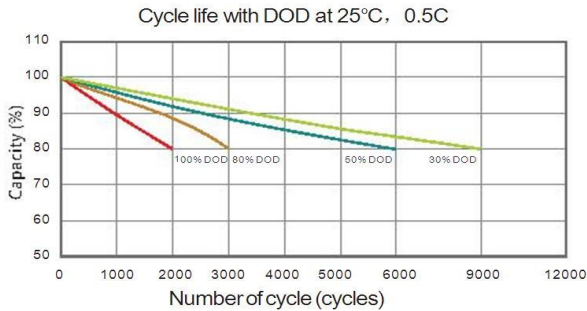


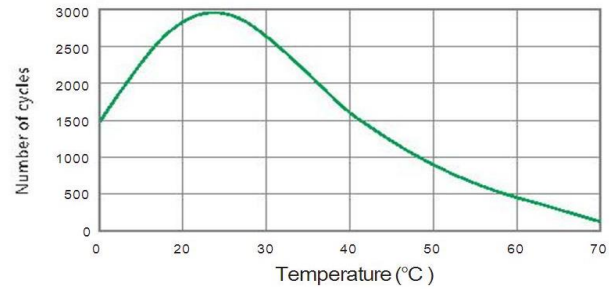
# RPower LFP1250

## (12.8V 5Ah LiFePO4 Battery)

### Number of Cycles vs. DOD



### Cycle Life in Relation to Temperature

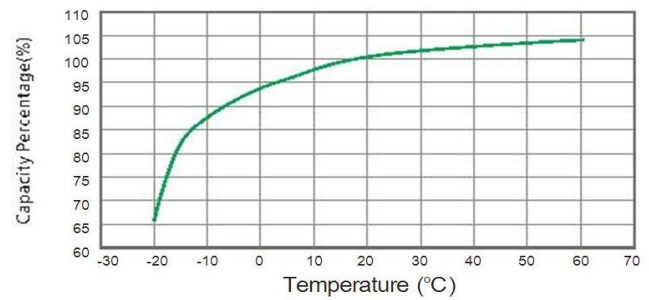


### Specifications

Nominal Voltage		12.8V
Nominal Capacity		5Ah
Specific Energy		64Wh
Dimensions (±2mm)	Length	90mm (3.54inch)
	Width	70mm (2.76inch)
	Height	101mm (3.98inch)
	Total Height	107mm (4.21inch)
Approx. Weight (±5%)		0.74kg (1.63lbs)
Terminal		6.3mm
Internal resistance		≤55mΩ@100%SOC
Voltage window		10.80 to 14.60V
Max. continuous charge current		5A
Max. continuous discharge current		10A
Peak discharge current		25A (10sec.)
Recommended charge current		2.5A
Recommended discharge current		2.5A
Charge current cut-off		0.15A
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*		2 (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: 15-25A
	Delay time: 15±2S
Secondary charging protection	Current: ≥25A
	Delay time: ≤3S
Primary discharging protection	Current: 15-25A
	Delay time: 15±2S
Secondary discharging protection	Current: >25A
	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
	5A	2.5A	1.66A	1A	0.5A

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

Cut-off voltage (10.8V)	1h	2h	3h	5h	10h
	57.5W	29W	19.4W	11.7W	5.9W