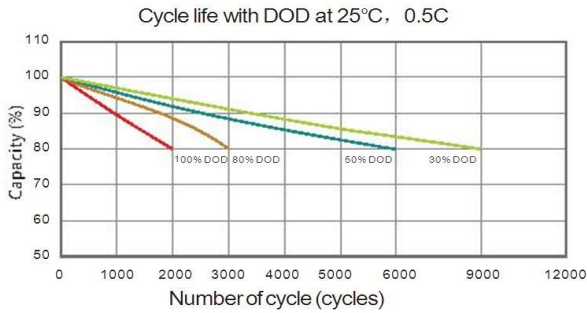


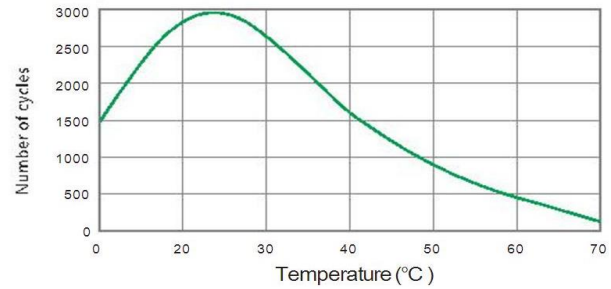
# RPower LFP12400

## (12.8V 40Ah LiFePO4 Battery)

### Number of Cycles vs. DOD



### Cycle Life in Relation to Temperature

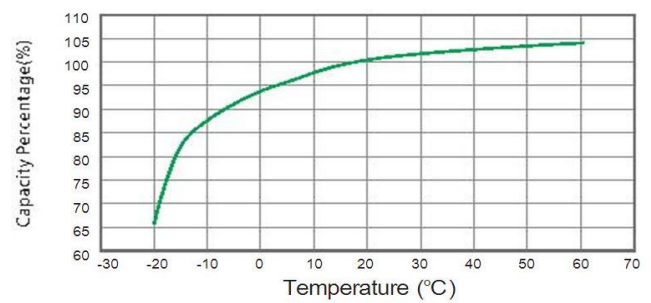


### Specifications

Nominal Voltage	12.8V	
Nominal Capacity	40Ah	
Specific Energy	512Wh	
Dimensions (±2mm)	Length	195mm (7.68inch)
	Width	130mm (5.12inch)
	Height	155mm (6.10inch)
	Total Height	168mm (6.61inch)
Approx. Weight (±5%)	4.90kg (10.80lbs)	
Terminal	M6	
Internal resistance	≤25mΩ@100%SOC	
Voltage window	10.80 to 14.60V	
Max. continuous charge current	40A	
Max. continuous discharge current	40A	
Peak discharge current	80A (10sec.)	
Recommended charge current	20A	
Recommended discharge current	20A	
Charge current cut-off	1.2A	
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: 50-65A
	Delay time: 15±2S
Secondary charging protection	Current: ≥65A
	Delay time: ≤3s
Primary discharging protection	Current: 55-90A
	Delay time: 15±2S
Secondary discharging protection	Current: >90A
	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
	40A	20A	13.3A	8A	4A

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

Cut-off voltage (10.8V)	1h	2h	3h	5h	10h
	--	232W	155W	93.6W	47.2W