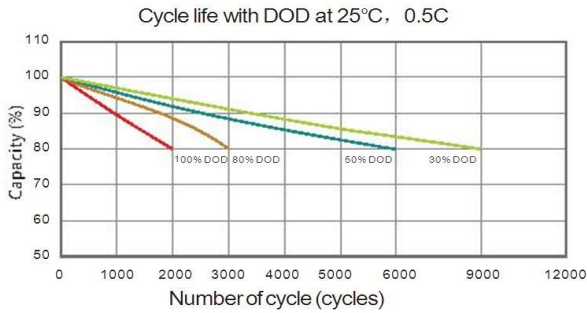


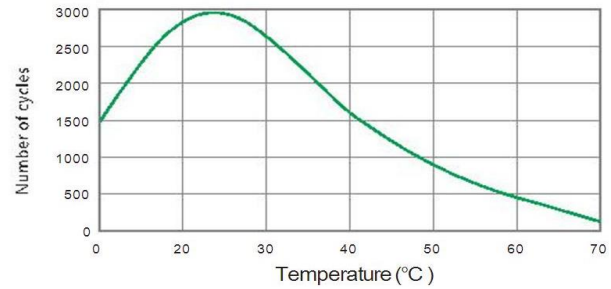
# RPower LFP12800

## (12.8V 80Ah LiFePO4 Battery)

### Number of Cycles vs. DOD



### Cycle Life in Relation to Temperature

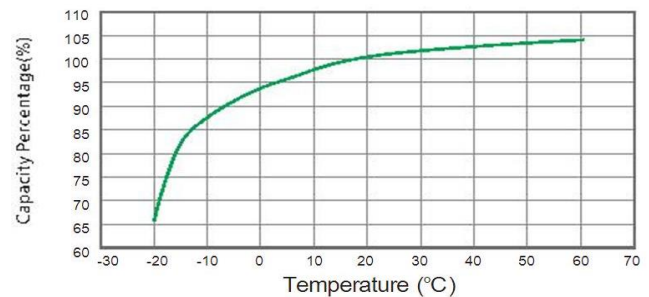


### Specifications

Nominal Voltage	12.8V	
Nominal Capacity	80Ah	
Specific Energy	1024Wh	
Dimensions (±2mm)	Length	258mm (10.2inch)
	Width	166mm (6.54inch)
	Height	210mm (8.27inch)
	Total Height	215mm (8.46inch)
Approx. Weight (±5%)	9.75kg (21.50lbs)	
Terminal	M8	
Internal resistance	≤15mΩ@100%SOC	
Voltage window	10.80 to 14.60V	
Max. continuous charge current	80A	
Max. continuous discharge current	80A	
Peak discharge current	200A (10sec.)	
Recommended charge current	40A	
Recommended discharge current	40A	
Charge current cut-off	2.4A	
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: 105-120A
	Delay time: 15±2S
Secondary charging protection	Current: ≥120A
	Delay time: ≤3s
Primary discharging protection	Current: 105-210A
	Delay time: 20±1S
Secondary discharging protection	Current: >210A
	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
	80A	40A	26.6A	16A	8A

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

Cut-off voltage (10.8V)	1h	2h	3h	5h	10h
	--	464W	310W	187W	94W