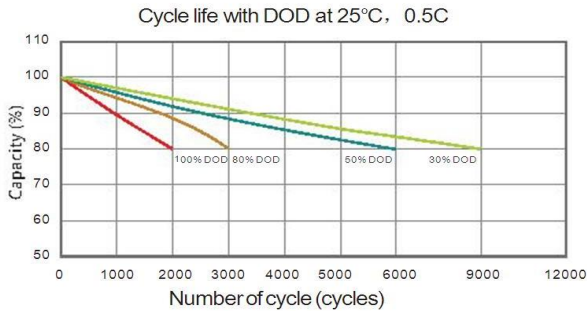


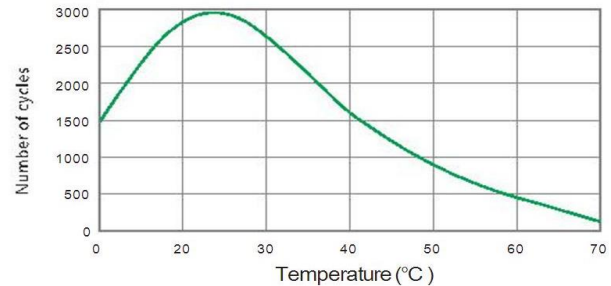
# RPower LFP12200

## (12.8V 20Ah LiFePO4 Battery)

### Number of Cycles vs. DOD



### Cycle Life in Relation to Temperature

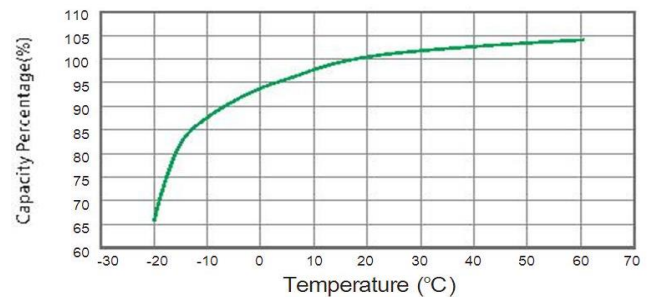


### Specifications

Nominal Voltage	12.8V	
Nominal Capacity	20Ah	
Specific Energy	256Wh	
Dimensions (±2mm)	Length	181mm (7.13inch)
	Width	77mm (3.03inch)
	Height	167mm (6.57inch)
	Total Height	167mm (6.57inch)
Approx. Weight (±5%)	2.90kg (6.39lbs)	
Terminal	M5	
Internal resistance	≤35mΩ@100%SOC	
Voltage window	10.80 to 14.60V	
Max. continuous charge current	20A	
Max. continuous discharge current	30A	
Peak discharge current	80A (10sec.)	
Recommended charge current	10A	
Recommended discharge current	10A	
Charge current cut-off	0.6A	
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
	20A	10A	6.66A	4A	2A

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

Cut-off voltage (10.8V)	1h	2h	3h	5h	10h
	230W	116W	77.6W	46.8W	23.6W