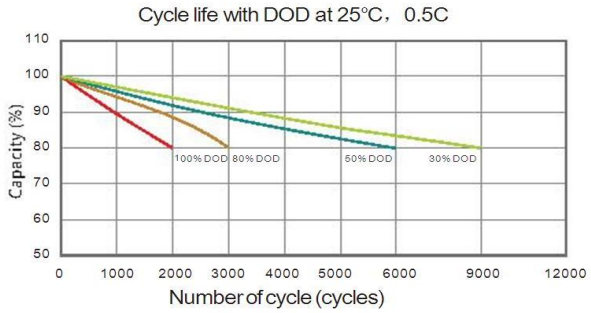
RPower LFP12150
(12.8V 15Ah LiFePO4 Battery)

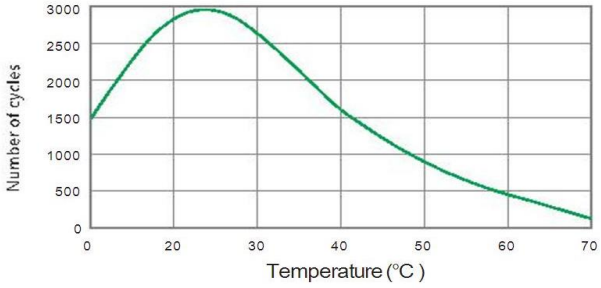
RP-TECHNIK
PART OF RP-GROUP

EAN: 4260349822022

Number of Cycles vs. DOD



Cycle Life in Relation to Temperature

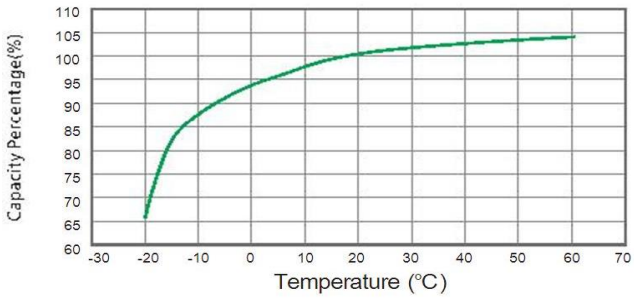


Specifications

Nominal Voltage		12.8V
Nominal Capacity		15Ah
Specific Energy		192Wh
Dimensions (±2mm)	Length	151mm (5.94inch)
	Width	98mm (3.86inch)
	Height	95mm (3.74inch)
	Total Height	101mm (3.98inch)
Approx. Weight (±5%)		1.90kg (4.19lbs)
Terminal		6.3mm
Internal resistance		≤40mΩ@100%SOC
Voltage window		10.80 to 14.60V
Max. continuous charge current		15A
Max. continuous discharge current		20A
Peak discharge current		35A (10sec.)
Recommended charge current		7.5A
Recommended discharge current		7.5A
Charge current cut-off		0.45A
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: 25~35A
	Delay time: 15±2S
Secondary charging protection	Current: ≥35A
	Delay time: ≤3S
Primary discharging protection	Current: 30~40A
	Delay time: 15±2S
Secondary discharging protection	Current: >40A
	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℃; Recover: 60±3℃
	Discharging: 65±3℃; Recover: 60±3℃
Low Temperature Protection	Charging: 0±3℃; Recover: 3±3℃
	Discharging: -20±3℃;Recover: -15±3℃

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

Cut-off voltage (10.8V)	1h	2h	3h	5h	10h
	15A	7.5A	5A	3A	1.5A

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

Cut-off voltage (10.8V)	1h	2h	3h	5h	10h
	172W	87W	58.2W	35.1W	17.7W