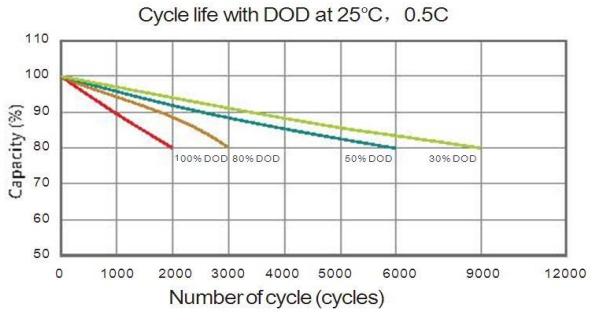
RPower LFP24100
(25.6V 10Ah LiFePO4 Battery)

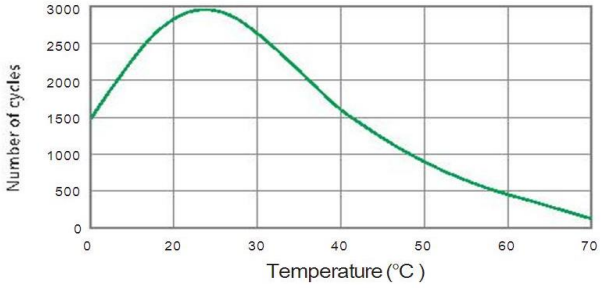
RP-TECHNIK
PART OF RP-GROUP

EAN: 4260349822114

Number of Cycles vs. DOD



Cycle Life in Relation to Temperature

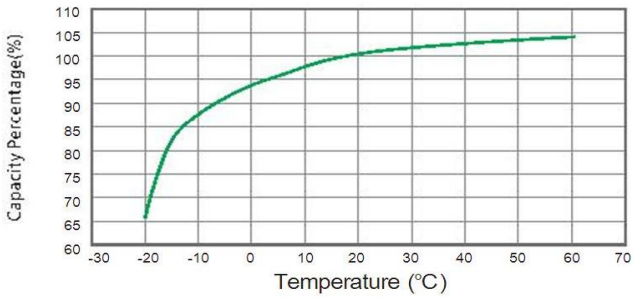


Specifications

Nominal Voltage		25.6V
Nominal Capacity		10Ah
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		≤45mΩ@100%SOC
Voltage window		21.60 to 29.20V
Max. continuous charge current		10A
Max. continuous discharge current		20A
Peak discharge current		70A (10sec.)
Recommended charge current		5A
Recommended discharge current		5A
Charge current cut-off		0.3A
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*		1 (Battery)
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: >27.0±2.5A
	Delay time: 15±2S
Secondary charging protection	Current: >37.0A±2.5A
	Delay time: ≤3S
Primary discharging protection	Current: >27.0±2.5A
	Delay time: 15±2S
Secondary discharging protection	Current: >75.0A±2.5A
	Delay time: ≤3S
Over-charge voltage protection	Voltage: >29.6±0.2V
	Delay time: ≤3S
Over-discharge voltage protection	Voltage: <19.2V±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 (21.6V)	1h	2h	3h	5h	10h
	10A	5A	3.33A	2A	1A

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

Cut-off voltage (21.6V)	1h	2h	3h	5h	10h
	230W	116W	77.6W	46.8W	23.6W