

R-LFP12.8V100Ah

Lithium Iron Phosphate Battery



SAFETY

- + Prismatic LiFePO₄ cells with higher consistency, longer cycle life and safer chemistry
- + UN38.3, MSDS, CE, EMC for system, UL 1642 for cell

DESIGN

- + ABS container, drop-in replacement for VRLA batteries
- + Fast charge performance.
- + Wide operating temperature range (-20°C to +55°C)
- + Maintenance free

BATTERY MANAGEMENT SYSTEM (BMS)

- + Integrated BMS inside
- + Independent protection for charge and discharge
- + Over voltage, low voltage, over temperature and short circuit protection

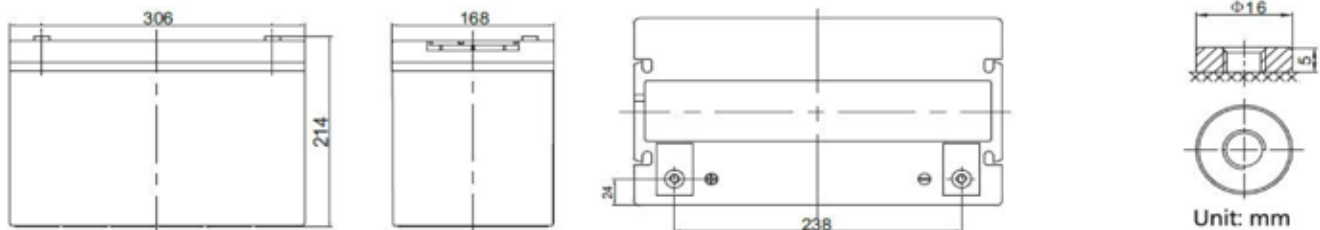


Applications:

Caravans, RVs, Leisure, Industrial Equipment, Solar



Dimension:

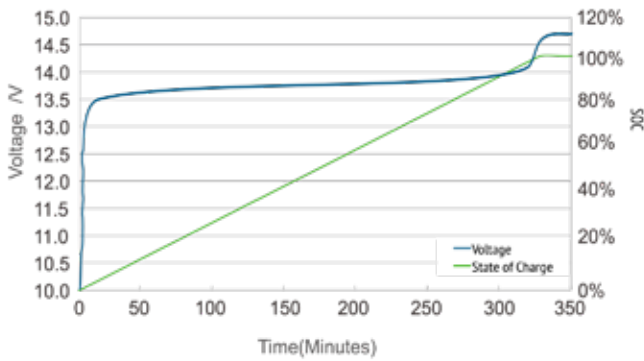


Specification

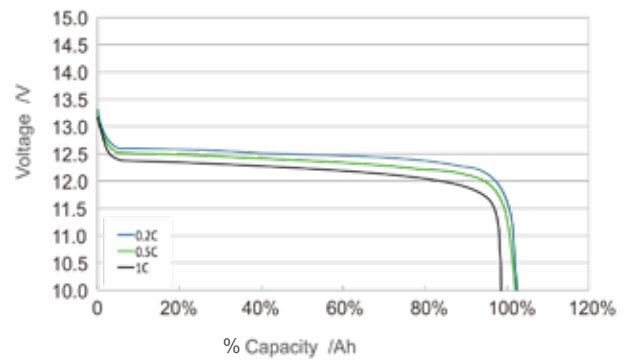
Part Number		R-LFP12.8V100Ah	
Electrical Characteristics	Nominal Voltage [V]	12.8	
	Nominal Capacity [Ah]	100	
	Nominal Energy [Wh]	1280	
	Internal Resistance [mΩ]	<20	
	Cycle Life		≥ 4800 @ 50% DOD
			≥ 3500 @ 80% DOD
			≥ 3000 @ 100% DOD
BMS	Over charge, over discharge, over and under temperature, short circuit protection, cell balancing		
Parallel Support	Max 2 sets		
Series Support	Max 4 sets		
Standard Charge	Charging Voltage [V]	14.6	
	Max Charging Current [A]	100	
	Recommended Charging Current [A]	50	
Standard Discharge	End of Discharge Voltage [V]	11.2	
	Max Discharging Current [A]	100	
	Pulse Discharge Current [A]	270A @ 10s	
Environmental	Charge Temperature Range [°C]	0 ~ 50°C	
	Discharge Temperature Range [°C]	-20 ~ 55°C	
Mechanical	Dimension [mm]	306*168*210	
	Weight [kg]	12.9	
	Case Material	ABS UL94-HB	
	Material System	LiFePO ₄	
	Protection Class	IP65	
	Terminal	M8	
	Designed Calendar Life	10 years	

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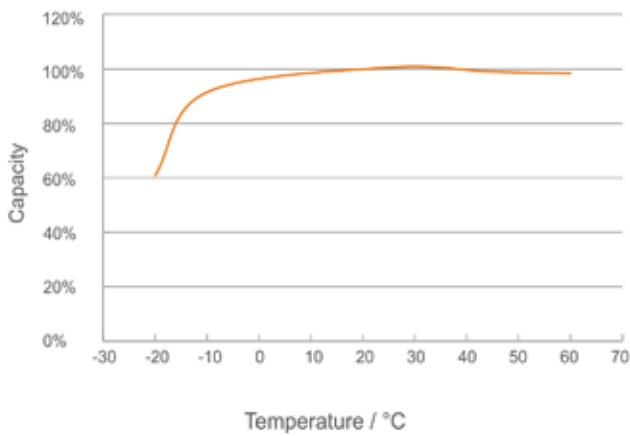
**Charge Voltage and State of Charge (SOC) Curve
0.2C@ 25°C (77°F)**



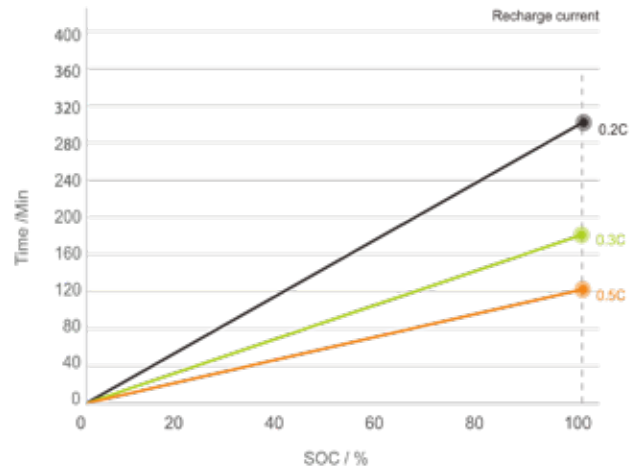
Discharge Voltage Characteristics at Various Rates 25°C (77°F)



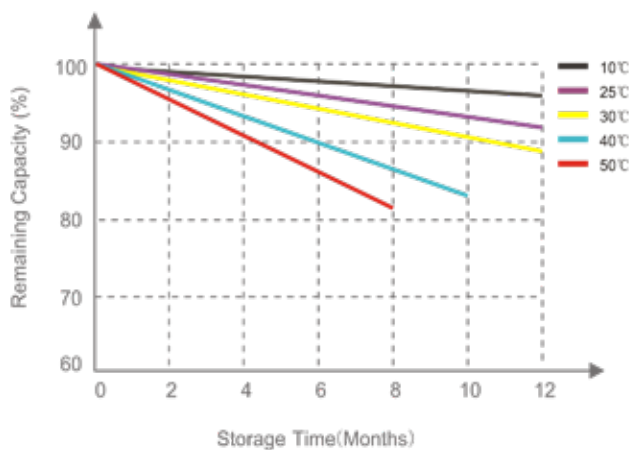
Capacity with Different Temperature



Typical Recharge Time



Different Temperature Self Discharge Curve



Typical Cycle Life

