R-LFP12.8V40Ah
Lithium Iron Phosphate Battery

RITAR®

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 hardware 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

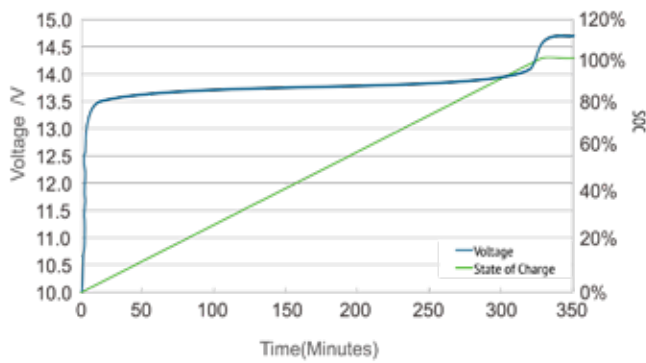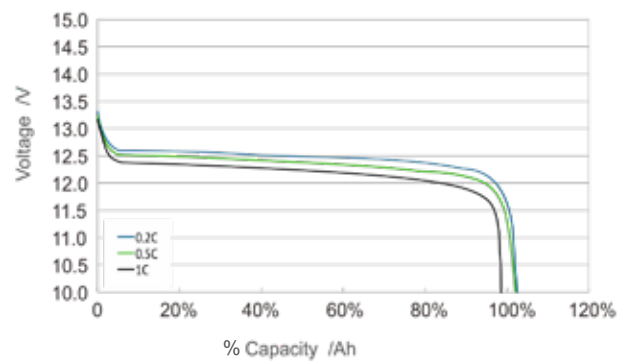IQNet ISO 9001   IQNet ISO 14001   IQNet ISO 45001   CE   RoHS

Dimension:

Unit: mm

Specification

Part Number		R-LFP12.8V40Ah
Electrical Characteristics	Nominal Voltage [V]	12.8
	Nominal Capacity [Ah]	40
	Nominal Energy [Wh]	512
	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 Currrent [A]	40
	Recommended Charging Current [A]	20
Standard Discharge	End of Discharge Voltage [V]	11.2
	Max Discharging Current [A]	40
	Pulse Discharge Current [A]	50A @ 10s
Environmental	Charge Temperature Range [°C]	0 ~ 50℃
	Discharge Temperature Range [℃]	−20 ~ 55℃
Mechanical	Dimension [mm]	198 *166*169
	Weight [kg]	4.96
	Case Material	ABS UL94-HB
	Material System	LiFePO4
	Protection Class	IP65
	Terminal	M6
	Designed Calendar Life	10 years

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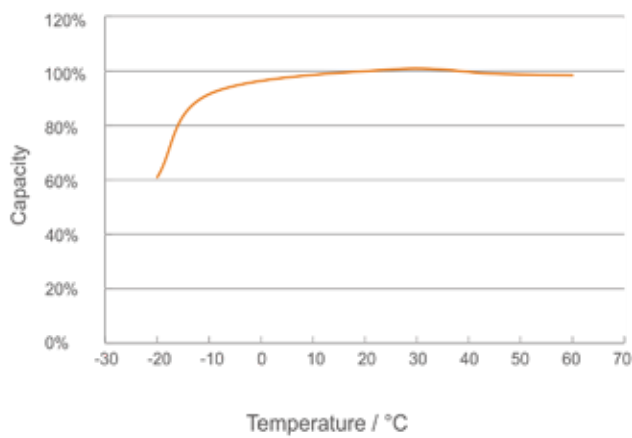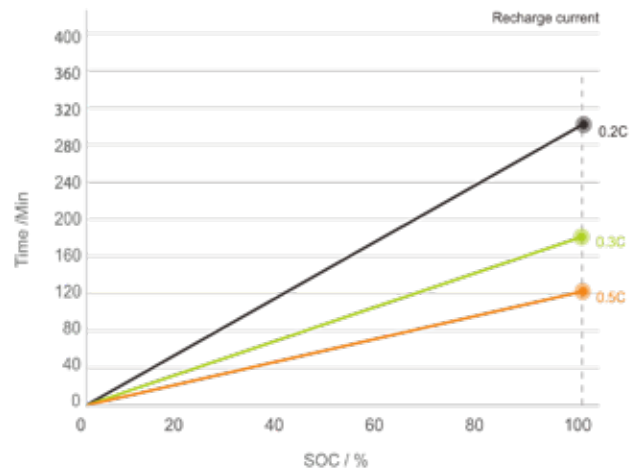## Charge Voltage and State of Charge (SOC) Curve 0.2C@ 25°C (77°F)

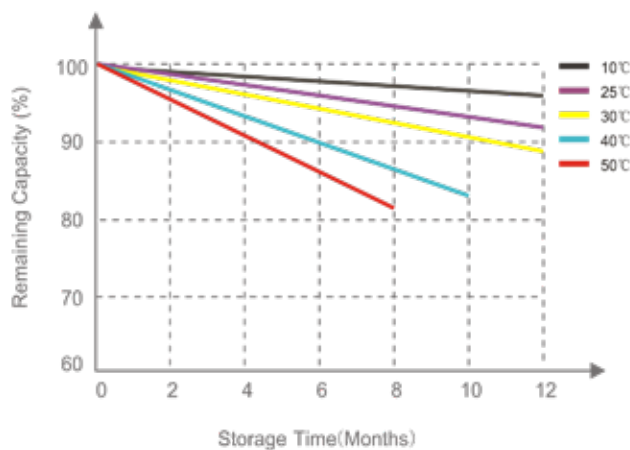## Discharge Voltage Characteristics at Various Rates 25°C (77°F)

Capacity with Different Temperature

Typical Recharge Time

Different Temperature Self Discharge Curve

Typical Cycle Life

MSDS and User manual available, The datasheet is subject to change without prior notification