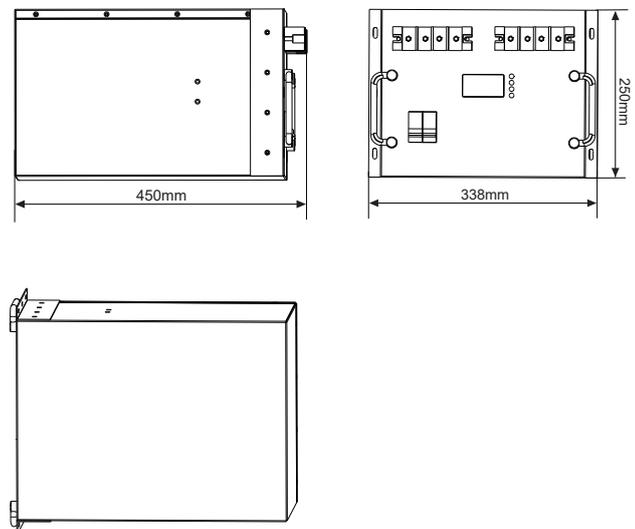


## LITHIUM IRON PHOSPHATE BATTERY

ELECTRICAL SPECIFICATIONS	
Nominal Voltage	51.2V
Nominal Capacity	100Ah
Capacity@20A	300min
Energy	5120Wh
Resistance	≤ 100mΩ
Efficiency	99%
Self Discharge	<3% Per Month
Maximum Modules in Series	1(Single-Use)
DISCHARGE SPECIFICATIONS	
Maximum Continuous Discharge Current	100A
Peak Discharge Current	100A
BMS Discharge Current Cut-Off	300A±100A(10mS)
BMS Charge Voltage Cut-Off	57V
Recommend Discharge Cut-off voltage	46V
Short Circuit Protection	200-600μS
Cell Configuration	16S1P
Cycle Life	>5000 cycles @ 0.5C 100%D.O.D
TEMPERATURE SPECIFICATIONS	
Discharge Temperature	-20 to 60 °C
Charge Temperature	0 to 45 °C
Storage Temperature	-20 to 40 °C
BMS High Temperature Cut-Off	80 °C
Reconnect Temperature	50 °C
MECHANICAL SPECIFICATIONS	
Dimensions(L×W×H)	450*338*250mm
Weight	48kg
Terminal Type	M10 Screw
Case Material	Metal
Enclosure Protection	IP56
Cell Type Chemistry	Prismatic-LiFePO <sub>4</sub>
CHARGE SPECIFICATIONS	
Recommended Charge Current	100A
Maximum Charge Current	100A
Recommended Charge Voltage	56.8V-58.4V
BMS Charge Voltage Cut-Off	58.4V (1±0.2S)
Balancing Current	2A
Balancing Voltage	3.4V
Charge Current (-20 to -10 °C)	≤0.05 C
COMPLIANCE SPECIFICATIONS	
Certifications	CE(battery)



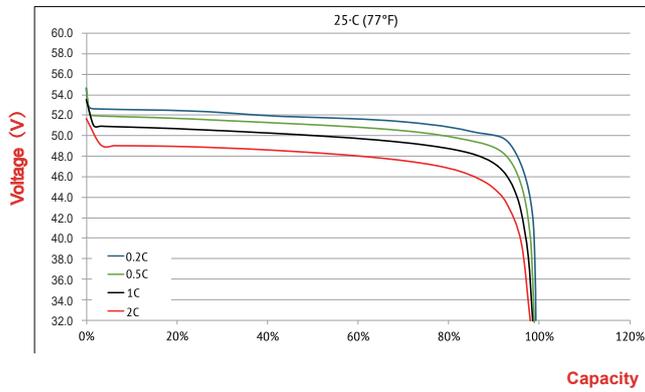
### « Dimensions



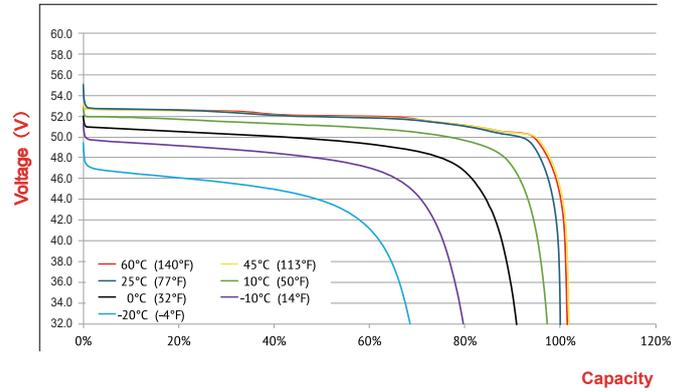
### FEATURE & BENIFITS»

- High Cycle Life: >5000 cycles @ 0.5C 100%D.O.D For Effectively Lower Cost Of Ownership.
- LIGHT WEIGHT: Dry Power Lithium Batteries Has Higher Energy Density, wh/kg Also Being Up To 1/3 Of SLA Battery.
- WIDE OPERATING TEMPERATURE RANGE: Suitable For Users In A Wider Range Of Application Where Ambient.
- Built-in BMS Protection: Battery Management System Are Incorporated To Protect Battery From OVER CHARGING, OVER DISCHARGING, SHORT CIRCUIT.

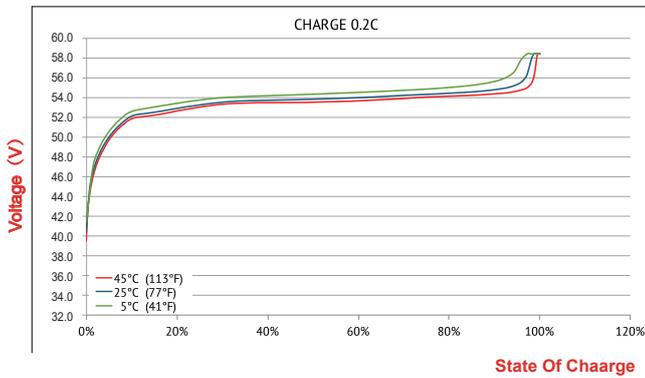
## ➤ Discharge Voltage Characteristics At Various Rates



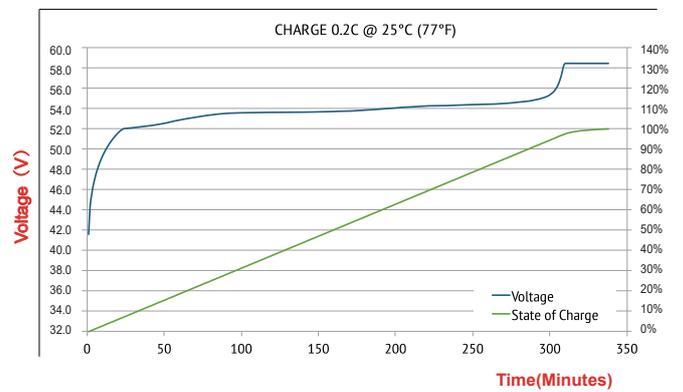
## ➤ Discharge Voltage Characteristics At Various Temperatures



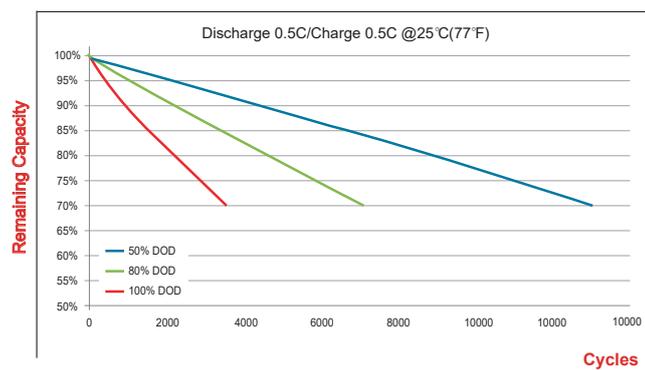
## ➤ Charge Voltage Characteristics At Various Temperatures



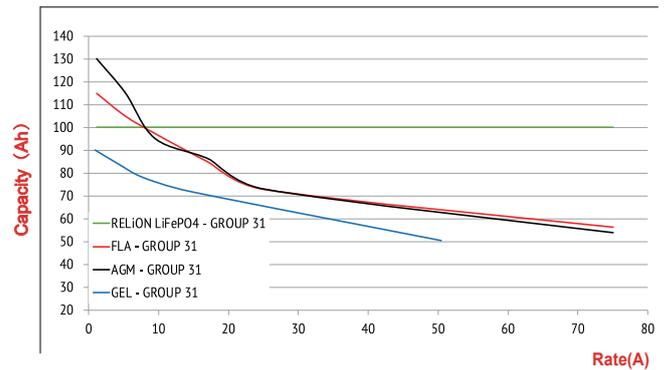
## ➤ Charge Voltage And State Of Charge(SOC)



## ➤ Cycle Life Vs.Depth Of Discharge(DOD)



## ➤ Capacity Of Relion LiFe PO4 Vs.Lead At Various Rates Of Discharge



## CAUTIONS »

- ▶ Do NOT Expose The Battery To Water.
- ▶ Only Use LiFePO<sub>4</sub> Charger.
- ▶ Do NOT Short Circuit, Crush Or Disassemble.
- ▶ Do NOT Expose The Battery To Fire & High Temperature.
- ▶ Store At 50% Capacity, Recharge Every 3 Months. The Storage Area Should Be Clean, Cool, Dry And Ventilated.