

## Safety

- Prismatic LiFePO<sub>4</sub> cells (UL1642, UL 9540, UL 2580)
- IEC62133 (cell), IEC62619(cell), UN38.3 (cell/pack)
- ROHS (cell), CE system certification, IP65 Rating

## Design

- metal case with side-mounted terminals for easy connection
- Rs485, CAN bus; LCD screen; Active balancing module
- Bluetooth connectivity

## Battery Management System (bms)

- Integrated hardware BMS inside
- Independent charge & discharge protection
- Over-charge protection, Over-discharge protection, Over-current protection, Over-temperature protection, Short protection & Balance protection

# R48-105EV-LFP A & B

## LiFePO<sub>4</sub> BATTERY



R48-105EV-LFP A

R48-105EV-LFP B



ISO9001



ISO14001



OHSAS18001



## SPECIFICATIONS

## R48-105EV-LFP A & B

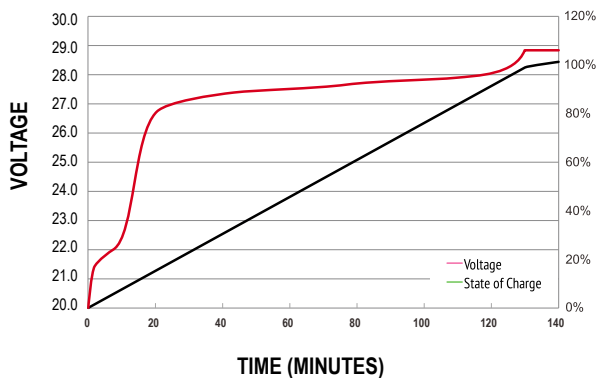
PRODUCT DIMENSIONS: (LxWxH)	404mm (15.9") x 324mm (12.75") x 250mm (9.84")	<b>R48-105EV-LFP A</b>
PRODUCT DIMENSIONS: (LxWxH)	519mm (20.4") x 250mm (9.84") x 265mm (10.43")	<b>R48-105EV-LFP B</b>
PRODUCT WEIGHT:	45 Kg / 99.2 Lbs	<b>R48-105EV-LFP A &amp; B</b>
NOMINAL VOLTAGE: (V)	51.2V	
NOMINAL CAPACITY: (AH)	105 AH	
TOTAL ENERGY: (KWh)	5.38 KWh	
RECOMMENDED END OF DISCHARGE VOLTAGE: (V)	48.0V	
END OF DISCHARGE PROTECTION VOLTAGE: (V)	40.0V	
INTERNAL BMS MODEL:	16S200A	
TERMINAL:	F12 (M8)	
CYCLE LIFE:	>6000 @ 80% DOD, >3000 @ 100% DOD	
SERIES CONNECTION:	1 UNITS MAX	
PARALLEL CONNECTION:	4 UNITS MAX	

## CHARGING

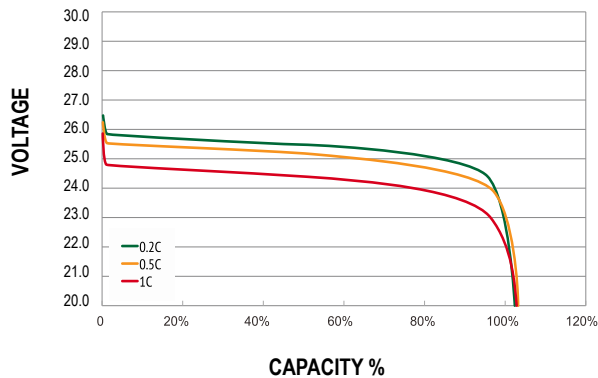
CHARGE VOLTAGE RANGE: (V)	56.0 - 58.4V	*DO NOT USE TEMPERATURE COMPENSATION (BTS)
RECOMMENDED CHARGE VOLTAGE: (V)	57.6V	
RECOMMENDED CHARGE CURRENT: (AMPS)		
0~5°C (32~41°F)	≤0.1C	11 A
5~10°C (41~50°F)	≤0.2C	21 A
10~35°C (50~95°F)	≤0.5C	52 A
35~50°C (95~122°F)	≤0.2C	21 A
CHARGE MODE:	CHARGE AT RECOMMENDED VOLTAGE & CURRENT BY TEMPERATURE UNTIL CHARGE CURRENT DROPS TO ≤ 0.05C (CC,CV)	
<b>MAX CONTINUOUS CHARGE CURRENT: (AMPS)</b>	<b>100 A</b>	
<b>MAX CONTINUOUS DISCHARGE CURRENT: (AMPS)</b>	<b>200 A</b>	
SURGE CURRENT LIMIT: (AMPS)	900 A (300ms)	
CHARGE TEMPERATURE RANGE:	0°C~55°C (32~131°F)	
DISCHARGE TEMPERATURE RANGE:	-20°~60°C (-4~140°F)	
STORAGE TEMPERATURE RANGE:	-5°~45°C (23~113°F)	

## R48-105EV-LFP A & B LiFePO<sub>4</sub> BATTERY

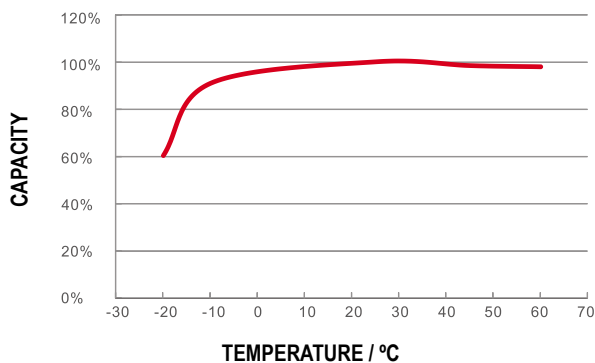
### CHARGING CHARACTERISTICS - (0.5C @ 25°C)



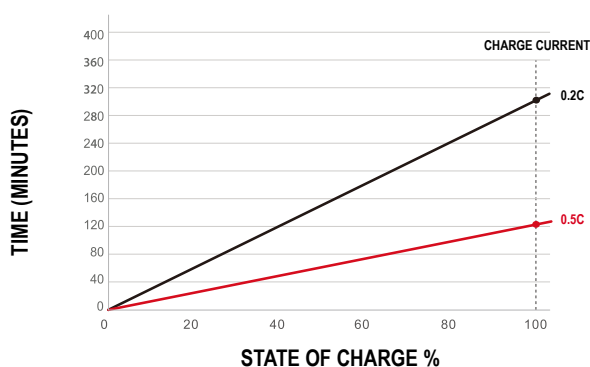
### DISCHARGE CHARACTERISTICS ( @ 25°C)



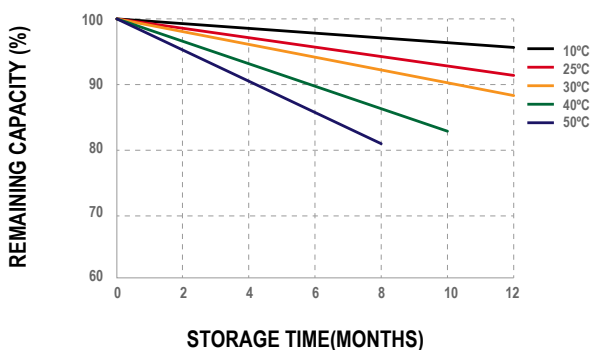
### TEMPERATURE VS CAPACITY



### CHARGE TIME 0.2C / 0.5C @ 25°C



### SELF-DISCHARGE BY TEMPERATURE



### CYCLE LIFE VS DEPTH OF DISCHARGE @ 25°C

