

Technical specification

POW12V100A-W



LITHIUM CHARGER SPECIFICATION (14.4 V / 100 A LIFEPO4 CHARGER)

1. General

The charger under this spec suitable for charging LiFePO4 battery, it defined LiFePO4 battery pack electric characteristics, safety requirement, size and attentions, this spec generally accord with all chargers produced by GWL Power a.s.

2. Electrical Characteristics

Electrical Characteristics	
Rated input voltage	220 V AC
Input voltage range	200-260 V AC
AC input voltage frequency	50 ~ 60 Hz
Power efficiency	≥ 85 %
Floating input power	≤ 0 W
Rated input power	≤ 1841 W
Floating voltage (output)	No (for Lead Acid battery only)
Rated output voltage (CC)	14.4 V DC
Rated output current (CC)	95 ~ 105 A
Suited battery pack	4 battery cells
Rated output power	≤ 1200 W



3. Protection Characteristics

Protection Characteristics	
Over voltage protection	Yes
Over current protection	Yes
Software over voltage protection	Charger SW limits max voltage
Thermal protection	Yes
Short circuit protection	Yes, automatically recover after removed the condition
Reverse polarity protection	Yes, the charger will simply not work while battery is connected with reverse polarity

4. Charger indicators

Charger indicators	
Charging	Red LED
Stand by or fully charged	Green LED

5. Environmental test requirements

Environmental test requirements	
High temperature ambient operation	+ 40 °C
Low temperature ambient operation	-10 °C
High temperature storage	+70 °C
Low temperature storage	-40 °C

6. Reliability

Reliability	
MTBF	Average operation life ≥ 30,000 hours (25 °C)
Anti-vibration	5mm / 50 Hz / 600 s vibration test (passed)



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7. Standard specifies

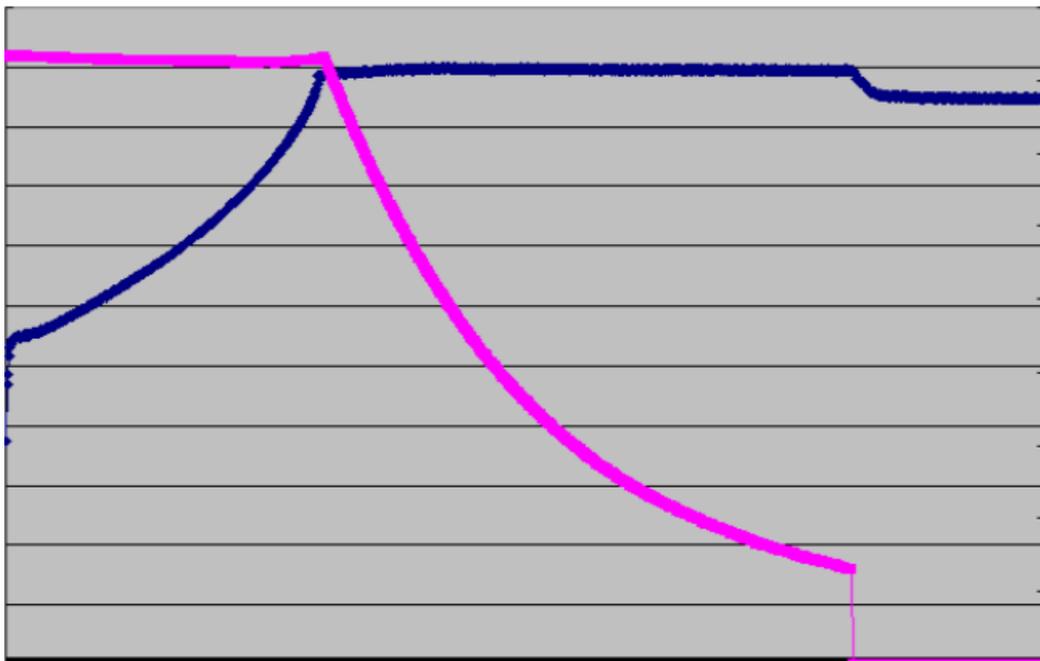
EN 55022:2006+A1:2007

EN 61000-3-2:2006+A1:2009+A2:2009

EN 61000-3-3:2008

EN 55024:1998+A1:2001+A2:2003

8. Charging Curve



9. Warnings

Please use the charger in accordance with the parameters and connections in the manual, and do not disassemble it. Or we will not be liable for the resulting loss.

1. High voltage inside the case, may cause harm to the human body, users and non-professional maintenance staff is forbidden to open the charger.
2. Charger should not be used where in damp, water, direct sunlight or near heat sources.
3. Charger should be used where clean and well ventilated. Don't sheltered inlet or outlet during charging, and make sure that both inlet and outlet have air space of at least 10 cm.
4. Charger should be used to prevent children closer and touch.
5. It prohibited that the charger used or stored near flammable, explosive goods.
6. While cleaning the charger please do not wash with water, we recommend using a clean rag dipped a small amount of alcohol.

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