

Technical specification

Charger 3.6V/5A for LiFePO4 cells



Input characteristics

Item	Value	Remark
Rated input voltage	120V / 230V	
Input voltage range	AC 110-240V	
AC input voltage frequency	47 - 63 Hz	
Max input current	1 A	

Output characteristics

Item	Value	Remark
Nominal charge voltage	3V	1 cells @ 3V
Fast charge voltage	3.65V	1 cells @ 3.65V +/- 0.05V DC
Maintain voltage	3.65V	(Float voltage)
Constant current	4.5 A	
Power efficiency	>80%	@ 230Vac

Protection characteristics

Item	Value	Remark
Output over voltage protection	3.7V	
Software over voltage protection	The charger software limits the maximum output voltage to a level suitable for the connected battery cell	
Thermal cutback	The internal temperature monitor reduces the charger output power in extreme operational temperature to prevent damage	
Output current limiting protection	6A	@ CC Mode
Output short circuit protection	Short circuit protection at the output terminals. Automatic recovery after restoring to normal conditions.	
Electronic reverse battery protection	The charger is electronically protected against permanent reversed battery connection.	

Charge indicator

Item	Value	Remark
Charging	Red LED on	
Complete charge	Green LED on	

Safety & EMC (CE Conformity Requirements)

Item	Value	Remark
Electric strength test input – output	1500 V / 10 mA /1 minute	No breakdown
Isolation resistance	> 10 MOhm @ 500 Vdc	Input – ground (GND)
Isolation resistance	> 10 MOhm @ 500 Vdc	Output – ground (GND)
Leakage current	< 3.5 mA	Vin = 264Vac, 50-60 Hz
Safety	EU standards for small electrical appliances	CE MARK
EMC – RE	Class B	EN55014
EMC – CE	Class B	EN55014
EMC – air discharge	Level 3	EN61000-4-2 (dis. B)
EMC – contact discharge	Level 3	EN61000-4-2 (dis. B)
EMC – RS	Level 3	EN61000-4-6 (dis. A)
EMC – CS	Level 3	EN61000-4-3 (dis. A)
EMC – EFT	Level 3	EN61000-4-4 (dis. B)
EMC – Surge	Level 3	EN61000-4-5 (dis. A) 1 kV, 2 kV (dis. B)

Environmental test requirements

Item	Value	Remark
High ambient operating temperature	+40 °C	continuous operation
Low ambient operating temperature	-10 °C	continuous operation
Highest storage temperature	+70 °C	allow 2 hours to recover to normal temperature
Lowest storage temperature	-40 °C	allow 2 hours to recover to normal temperature
Drop shock	40 g peak	EN60068-2-32:1993



**GWL
POWER**

www.ev-power.eu
Your complete power solutions.

Others

Item	Value	Remark
Dimesions	160 x 100 x 40 mm	w/o power cord
Wight	300 g	



WARNING

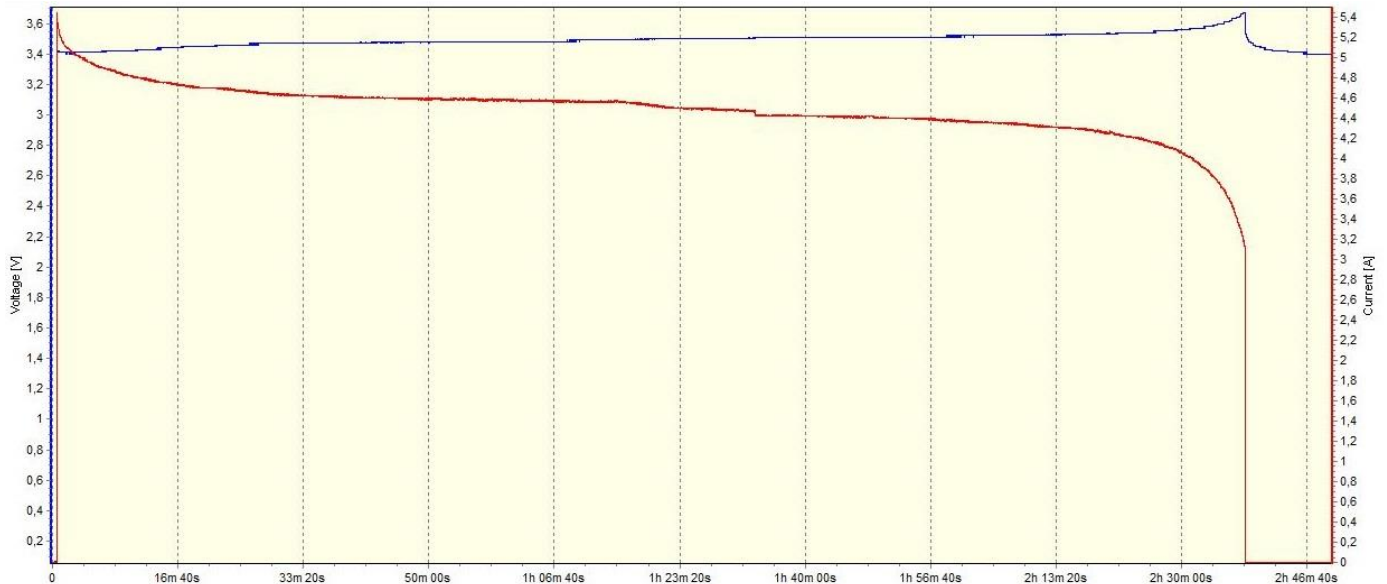
Use only with LiFePO4 cells



**GWL
POWER**

www.ev-power.eu
Your complete power solutions.

Charging characteristics



NOTE

LED indicator for charging status:

Red LED = Charging

Green LED = Fully Charged

Red clip = positive terminal (+)

Black clip = negative terminal (-)

GWL Power Ltd.
Průmyslová 11, 102 19 Prague 10
Czech Republic, European Union

www.ev-power.eu