Technical specification

Charger for LiFePO4 cells

3.6 V/20 A

PRODUCT WEBPAGE

Charger 3.6 V/20 A for LiFePO4 cells

1. INPUT CHARACTERISTICS

No.	Item	Technical specification	Unit	Remark
1-1	Rated input voltage	120 V / 230 V	Vac	
1-2	Input voltage range	AC 100 – 240 V	Vac	
1-3	AC input voltage frequency	47 – 63	Hz	
1-4	Max input current	2 A	A	

2. OUTPUT CHARACTERISTICS

No.	Item	Technical specification	Unit	Remark
2-1	Nominal charge voltage	3 V	Vdc	1 cells @ 3 V
2-2	Fast charge voltage	3,65 V	Vdc	1 cells @ 3.65 V +/- 0.05 VDC
2-3	Maintain voltage	3.65 V	Vac	(Float voltage)
2-4	Constant current	20 A	A	
2-5	Power efficiency	> 80 %		@ 230 Vac

3. PROTECTION CHARACTERISTICS

No.	Item	Technical specification	Unit	Remark
3-1	Output over voltage protection	3.7 V	Vdc	
3-2	Software over voltage protection	The charger software limits the maximum output voltage to a level suitable for the connected battery cell.		
3-3	Thermal cutback	The internal temperature monitor reduces the charger output power in extreme operational temperature to prevent damage.		
3-4	Output current limiting protection	21 A	A	@ CC Mode
3-5	Output short circuit protection	Short circuit protection at the output terminals. Automatic recovery after restoring to normal conditions.		
3-6	Electronic reverse battery protection	The charger is electronically protected against permanent reversed battery connection.		

4. CHARGE INDICATOR (LED)

No.	Item	Technical specification	Unit	Remark
4-1	Charging	Red LED on		
4-2	Complete charge	Green LED on		

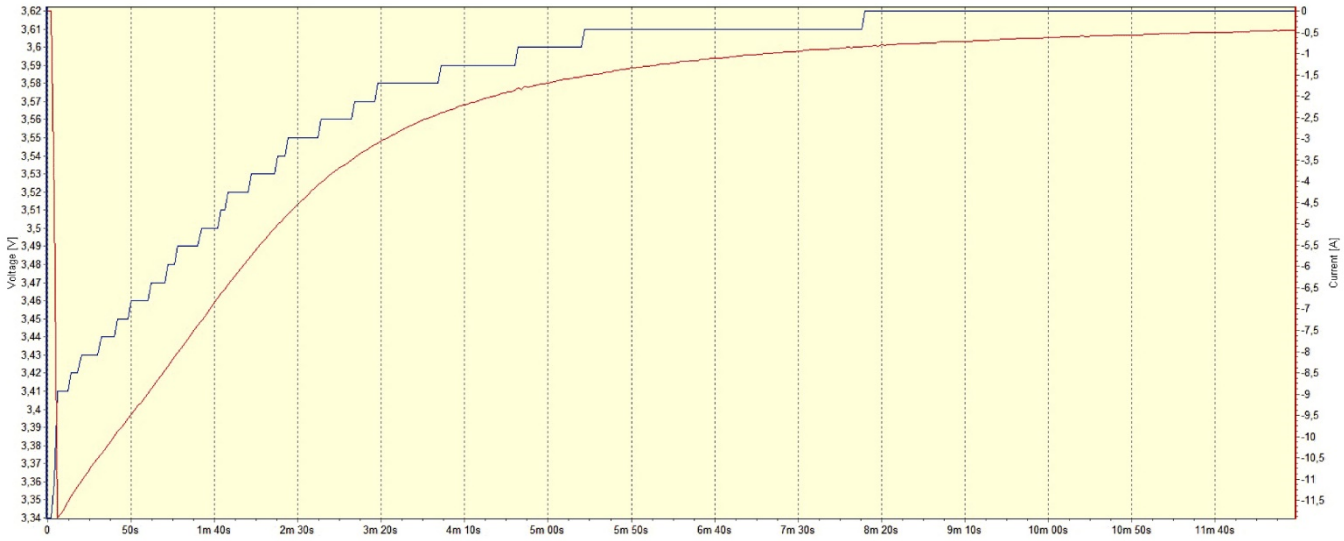
5. SAFETY & EMC (CE CONFORMITY REQUIREMENTS)

No.	Item	Technical specification	Unit	Remark
5-1	Electric strength test input - output	1500 V / 10 mA /1 minute	Vac	No breakdown
5-2	Isolation resistance	> 10 MOhm @ 500 Vdc	MOhm	Input - ground (GND)
5-3	Isolation resistance	> 10 MOhm @ 500 Vdc	MOhm	Output - ground (GND)
5-4	Leakage current	< 3.5 mA	A	Vin = 264 Vac, 50 – 60 Hz
5-5	Safety	EU standards for small electrical appliances		CE MARK
5-6	EMC - RE	Class B		EN55014
5-7	EMC - CE	Class B		EN55014
5-8	EMC - air discharge	Level 3		EN61000-4-2 (dis. B)
5-9	EMC - contact discharge	Level 3		EN61000-4-2 (dis. B)
5-10	EMC - RS	Level 3		EN61000-4-6 (dis. A)
5-11	EMC - CS	Level 3		EN61000-4-3 (dis. A)
5-10	EMC - EFT	Level 3		EN61000-4-4 (dis. B)
5-10	EMC - Surge	Level 3		EN61000-4-5 (dis. A) 1 kV, 2 kV (dis. B)

6. ENVIRONMENTAL TEST REQUIREMENTS

No.	Item	Technical specification	Unit	Remark
6-1	High ambient operating temperature	+40 °C	deg C	Continuous operation
6-2	Low ambient operating temperature	-10 °C	deg C	Continuous operation
6-3	Highest storage temperature	+70 °C	deg C	Allow 2 hours to recover to normal temperature
6-4	Lowest storage temperature	-40 °C	deg C	Allow 2 hours to recover to normal temperature
6-5	Drop shock	40 g peak		EN60068-2-32:1993

7. CHARGING CURVE



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