

600W – 36V 12A CHARGER

for 36V Lithium Iron Phosphate battery



600W 36V 12A CHARGER SPECIFICATIONS

1. Input characteristics				
No.	Item	Technical specification	Unit	Remark
1.1	Rated input voltage	230	V	AC
1.2	Input voltage range	100 – 240	V	AC
1.3	AC input voltage frequency	47 - 63	Hz	
1.4	Inrush current	< 6	A	@ 264Vac start-up in cold condition
1.5	Max input current	5	A	

2. Output characteristics				
No.	Item	Technical specification	Unit	Remark
2.1	Nominal charge voltage	38.4	V	12 cells 38.4V LiFePO4 battery
2.2	Max charger voltage	43.8	V	12 cells 43.8 LiFePO4 battery
2.3	Floating charge voltage limit	43.8V ± 0.2	V	
2.4	Constant current	12 ± 0.5	A	
2.5	Power efficiency	> 85	%	At max. load
2.6	Maximum output power	600	W	
2.7	Charge end condition	0.12 – 0.3	A	
2.8	Output voltage range	27 – 43.8	V	

3. Protection characteristics				
No.	Item	Technical specification	Unit	Remark
3.1	Output over voltage protection	48	V	
3.2	Software over voltage protection	The charger software limits the maximum output voltage to a level suitable for the connected battery system		
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	13.2	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. Environmental test requirements				
No.	Item	Technical specification	Unit	Remark
4.1	High ambient operating temperature	+40 °C	Deg C	continuous operation
4.2	Low ambient operating temperature	-10 °C	Deg C	continuous operation
4.3	Highest storage temperature	+60 °C	Deg C	allow 2 hours to recover to normal temperature
4.4	Lowest storage temperature	- 20 °C	Deg C	allow 2 hours to recover to normal temperature

Charging curve (I and V) :


