

Synergy



- Isolation design
- Input power factor correction
- Microprocessor controlled to guarantee stable charging system
- User-adjustable charging current based on applications
- Three-stage smart charging
- Output short circuit protection
- Maximum current restriction
- Over-voltage protection
- Thermal control protection and reversal polarity protection
- Parallel operation

SUPER SMART CHARGER

Synergy Super Smart Charger Selection Guide

MODEL	Synergy-240	Synergy-120	Synergy-96	Synergy-72	Synergy-48	Synergy-36	Synergy-24
INPUT							
Acceptable Input Voltage	170-280 VAC						
Acceptable Input Frequency	50/60 Hz						
Current	8 A (max.) @ full load						
OUTPUT							
Maximum Output Current	4 A ± 0.4 A	8 A ± 0.8 A	10 A ± 1 A	12 A ± 1.2 A	15 A ± 1.5 A	15 A ± 1.5 A	20 A ± 2 A
Power Efficiency	≥ 83%		≥ 80%			> 75%	
Output Voltage	240 V	120 V	96 V	72 V	48 V	36 V	24 V
Maximum Output Charging Power	960 W	960 W	960 W	960 W	720 W	550 W	480W
Floating Charging Voltage	273.6Vdc ± 2.7Vdc	136.8 Vdc ± 1.4 Vdc	109.6 Vdc ± 1.2 Vdc	82.2 Vdc ± 0.9 Vdc	54.8 Vdc ± 0.6 Vdc	41.1Vdc ± 0.45 Vdc	27.3Vdc ± 0.3 Vdc
Boost Charging Voltage	283.2Vdc ± 2.8Vdc	141.6 Vdc ± 1.4 Vdc	112.8 Vdc ± 1.2 Vdc	84.6 Vdc ± 0.9 Vdc	56.4 Vdc ± 0.6 Vdc	42.3 Vdc ± 0.45 Vdc	28.2 Vdc ± 0.3 Vdc
Selectable Charging Current @ Constant Current Mode	1 A ~ 4 A	1 A ~ 8 A	1 A ~ 10 A	1 A ~ 12 A	1 A ~ 15 A	1 A ~ 15 A	1 A ~ 20 A
PROTECTION							
Full Protection	Over-voltage protection, thermal control protection, maximum output current protection, short circuit protection, and reversal polarity protection						
INDICATOR							
Charger On/Off	Green LED lighting						
Boost Charging Status	Yellow LED lighting						
Floating Charging Status	Green LED lighting						
High Battery Voltage @ Charging	Green LED flashing						
Normal Battery Voltage @ Charging	Yellow LED flashing						
Low Battery Voltage @ Charging	Red LED flashing						
PHYSICAL							
Dimension, D X W X H (mm)	300 x 165 x 95						
Net Weight (kgs)	3.6	3.6	3.1	3.1	3.1	3.1	3.1
ENVIRONMENT							
Humidity	5-95 % RH (non-condensing)						
Operating Temperature	0°C to 40°C						
Noise Level	< 50 dBA @ CC mode & full load						
Cooling System	Auto adjustable speed depending on load level						

* Product specifications are subject to change without further notice