

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

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	165-285 VAC						
Acceptable Input Frequency	40-70 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	≥ 80%						
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	273.6 Vdc ± 2.7 Vdc	136.8 Vdc ± 1.4 Vdc	109.6 Vdc ± 1.2 Vdc	82.2 Vdc ± 0.9 Vdc	54.8 Vdc ± 0.6 Vdc	41.1 Vdc ± 0.45 Vdc	27.3 Vdc ± 0.3 Vdc
Boost Charging Voltage	283.2 Vdc ± 2.8 Vdc	141 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	2 A ~ 10 A	2 A ~ 12 A	3 A ~ 15 A	3 A ~ 15 A	2 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	Green LED lighting						
Boost Charging Status	Yellow LED lighting						
Floating Charging Status	Green LED lighting						
High Battery Voltage @ Charging	Green LED lighting						
Normal Battery Voltage @ Charging	Yellow LED lighting						
Low Battery Voltage @ Charging	Red LED lighting						
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 to 40						
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