

12/24/48V

MPPT Solar Charge Controller

SCCM-III Series

Features

-  Support parallel operation via CAN communication.
-  Communicate with battery packs via RS485 communication.
-  Built-in WiFi enabling remote monitoring through the app.
-  Maximum efficiency up to 98%.
-  Enhanced Battery Performance with Three-Stage Charging.
-  Efficiency increasing 25%~30% with intelligent maximum powerpoint tracking technology.



SCCM3024-III~12048-III



Model	SCCM3024-III	SCCM4524-III	SCCM4548-III	SCCM6048-III	SCCM8048-III	SCCM10048-III	SCCM12048-III
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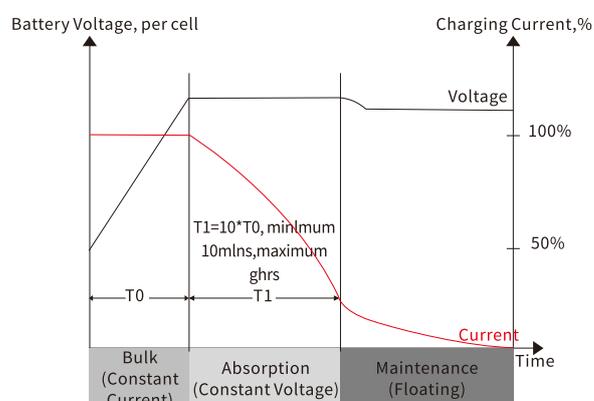
Electrical Specifications

PV Start-up Voltage	20V						
Maximum Charge Current	30Amps	45Amps	45Amps	60Amps	80Amps	100Amps	120Amps
Nominal System Voltage	12,24V (Auto Detection)		12V, 24V, 48V (Auto Detection)				
Maximum Solar Input Voltage	95V		145V			165V	
MPPT Voltage Range	12VDC/24VDC		12Vdc/24Vdc/48Vdc			12Vdc/24Vdc/48Vdc	
	18-80VDC/35-80VDC		18-125Vdc/35-125Vdc 65-125Vdc			18-145Vdc/35-145Vdc 65-145Vdc	
Maximum Input Power	12V - 420W	12V - 625W	12V - 625W	12V - 825W	12V - 1100W	12V - 1375W	12V - 1650W
	24V - 830W	24V - 1250W	24V - 1250W	24V - 1650W	24V - 2200W	24V - 2750W	24V - 3300W
	/	/	48V - 2500W	48V - 3300W	48V - 4400W	48V - 5500W	48V - 6600W

Battery Charging

Charging Algorithm	3-Step						
Charging Stages	Bulk, Absorption, Float						
Temperature Compensation Coefficient	-5 mV /°C / cell (25°Cref.)						
Temperature Compensation Range	0 °C to +50 °C						

Charging Curve



Mechanical and Environment

Product Size (WxHxD, mm)	200.2x137.2x65	221x151.4x80.5	276.4x184.4x100	276.4x184.4x100	289.4x198.4x103.6	329x219x118.5	329x219x118.5
Product Weight(KG)	1 KG	1.5 KG	3.3 KG	3.3 KG	3.5 KG	5.2 KG	5.2 KG
Ambient Temperature Range	240x170x102	265x188x116	308x212x125	308x212x125	322x238x140	370x250x156	370x250x156
Storage Temperature	1.3 KG	1.9 KG	3.7 KG	3.7 KG	4 KG	5.9 KG	5.9 KG
Humidity	495x355x222	546x392x250	635x440x268	635x440x268	663x492x298	758x518x172	758x518x172
Enclosure	11.3(8PCS)	16.4(8PCS)	31(8PCS)	31(8PCS)	33.3(8PCS)	25.3(4PCS)	25.3(4PCS)
Ambient Temperature Range	0 °C to +55 °C						
Storage Temperature	-25 °C to +75 °C						
Humidity	0%-90%RH(No Condensing)						
Enclosure	IP20(Indoor & Vented)						

