

SC 4860~48120/-MPV

- Reverse polarity protection of battery
- Optional WIFI/ GPRS remote monitoring
- BTS for battery compensation
- PV input voltage up to 250VDC only for MPV series
- Multi-stage charging optimizes battery performance



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Datasheet	SC4860/4860-MPV	SC4880/4880-MPV	SC 48100/48100-MPV	SC 48120/48120-MPV
Compatible Battery Nominal Voltage	12V/24V/48V			
ELECTRICAL				
PV Operating Voltage	18~50Vdc/18~50Vdc@12V 34~100Vdc/34~100Vdc@24V 60~145/60~200Vdc@48V			
Max.PV Open Circuit Voltage	150/250Vdc			
Max. Recommended PV Power	1000W@12V 2000W@24V 4000W@48V	1250W@12V 2500W@24V 5000W@48V	1500W@12V 3000W@24V 6000W@48V	1750W@12V 3500W@24V 7000W@48V
Max.Charging Current	60A	80A	100A	120A
Self Consumption	2W			
MPPT Efficiency	99.5%			
Max.Efficiency	97.5%			
Protection	Overload,high voltage, high temperature protection			
BATTERY CHARGING				
Battery Type	Lithium/Sealed: AGM, Gel, Flooded,User define			
Charging Algorithm	3-stage: Bulk, Absorption, Float, Equalize			
Bulk Charge Voltage	14.1V@12V 28.2V@24V 56.4V@48V User define:48~58.4V			
Float Charge Voltage	13.6V@12V 27.2V@24V 54.4V@48V User define:48~58.4V			
Temperature Compensation	-5mV/°C with BTS(Optional)			
COMMUNICATION				
Communication Port	USB,BMS			
MECHANICAL				
Net Weight (kgs)	3	3.2	3.9	4.1
Gross Weight (kgs)	3.7	3.9	4.5	4.7
Dimensions (W/H/D)	295/180/100mm		320/200/105mm	
Cooling	Fan cooling			
Protection Degree	IP20			
ENVIRONMENT				
Ambient Temperature	-20~55°C(Derating from 45°C)			
Storage Temperature	-40°C~+60°C			
Humidity	100% non-condensing			
Altitude	<2000m			