

# 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<br>34~100Vdc/34~100Vdc@24V<br>60~145/60~200Vdc@48V |                                     |                                     |                                     |
| Max.PV Open Circuit Voltage        | 150/250Vdc                                                               |                                     |                                     |                                     |
| Max. Recommended PV Power          | 1000W@12V<br>2000W@24V<br>4000W@48V                                      | 1250W@12V<br>2500W@24V<br>5000W@48V | 1500W@12V<br>3000W@24V<br>6000W@48V | 1750W@12V<br>3500W@24V<br>7000W@48V |
| Max.Charging Current               | 60A                                                                      | 80A                                 | 100A                                | 120A                                |
| Self Consumption                   | 2W                                                                       |                                     |                                     |                                     |
| MPPT Efficiency                    | 99.5%                                                                    |                                     |                                     |                                     |
| Max.Efficiency                     | 97.5%                                                                    |                                     |                                     |                                     |
| Protection                         | Overload,high voltage,<br>high temperature protection                    |                                     |                                     |                                     |
| BATTERY CHARGING                   |                                                                          |                                     |                                     |                                     |
| Battery Type                       | Lithium/Sealed: AGM, Gel, Flooded,User define                            |                                     |                                     |                                     |
| Charging Algorithm                 | 3-stage: Bulk, Absorption,<br>Float, Equalize                            |                                     |                                     |                                     |
| Bulk Charge Voltage                | 14.1V@12V<br>28.2V@24V<br>56.4V@48V<br>User define:48~58.4V              |                                     |                                     |                                     |
| Float Charge Voltage               | 13.6V@12V<br>27.2V@24V<br>54.4V@48V<br>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                                                                   |                                     |                                     |                                     |