The SOLARCON SCM-series charge controller is the most sophisticated solar charger with PV Maximum Power Point Tracking (MPPT) algorithm. The charge controller equipped with advanced microprocessor control to get the maximum power from PV to charge battery with LCD display and front panel for easy and accurate setting more over the digital meter with 180 days power and event logger are inclusive.
## Wall Mount/Tower Model

<table>
<thead>
<tr>
<th>Model</th>
<th>SCM-1203S</th>
<th>SCM-12070</th>
<th>SCM-120105</th>
<th>SCM-120140</th>
<th>SCM-2403S</th>
<th>SCM-24070</th>
<th>SCM-240105</th>
<th>SCM-240140</th>
<th>SCM-360200</th>
<th>SCM-360300</th>
<th>SCM-360400</th>
<th>SCM-480150</th>
<th>SCM-480200</th>
<th>SCM-480300</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rack Mount Model</td>
<td>SCM-12035/5RM</td>
<td>SCM-12070/5RM</td>
<td>SCM-120105/5RM</td>
<td>SCM-24035/5RM</td>
<td>SCM-24070/5RM</td>
<td>SCM-240105/5RM</td>
<td>SCM-240140/5RM</td>
<td>SCM-360200/5RM</td>
<td>SCM-360300/5RM</td>
<td>SCM-360400/5RM</td>
<td>SCM-480150/5RM</td>
<td>SCM-480200/5RM</td>
<td>SCM-480300/5RM</td>
<td></td>
</tr>
</tbody>
</table>

### INPUT (Configuration of PV in series within these voltage range)

- **Vmp of PV**: 85 - 110 Vdc
- **Tracking voltage range**: 48 - 110 Vdc
- **Voc of PV**: < 138 Vdc
- **Maximum current**: 35 A
- **Maximum PV power**: 3.4 kWp

### OUTPUT (at 25°C)

- **Nominal battery voltage**: 120 Vdc
- **Boost charging voltage**: 130.0 - 150.0 Vdc
- **Float charging voltage**: 120.0 - 140.0 Vdc
- **Low voltage alarm**: 100.0 - 120.0 Vdc
- **Low voltage cut off (signal)**: 99.0 - 119.0 Vdc
- **Reconnect voltage (signal)**: 115.0 - 135.0 Vdc

#### BATTERY

- **Type**: Deep cycle lead acid (LA)
- **Efficiency**
- **Protection**
- **Alarm**
- **Indication**
- **Communication Interface**
- **System**
- **Operating Condition**

#### Design Regulation

- **Standard**: IEC 61683, AS/NZS 3100:2009

#### Dimension (W x H x D) (approximate in cm.)

- **Wall mount case**: 42 x 53 x 24
- **Rack mount case**: 48.2 x 22.2 x 64.5 (5U)
- **Tower case**: -

#### Weight (approximate in kg.)

- **Wall mount case**: 24
- **Rack mount case**: 25
- **Tower case**: 361

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*The Vmp and Voc used for configuration must be considered with temperature coefficient affected by environment at each install location. **For operation of charge controller at ambient temperature a 25°C. The peak PV power must be derated 15% when charge controller operates at ambient temperature over than 25°C. Continuous product development is our commitment. In that manner, the above specifications may be changed without prior notice.*