



**12/24V 45 Amp  
4 Stage Solar Controller**  
#SC245

www.projecta.com.au



**DESCRIPTION**

12/24 Volt automatic, 4 stage solar controller. Can be left connected to the battery to keep it fully charged. These controllers will maintain a constant voltage, keeping the battery fully charged at all times. Overcharge and discharge protected. LCD panel display and LED charge indicators.

**FEATURES**

- Multi-stage (4 stage) solar controller
- Easy to read LED screen (voltage, current, capacity, etc.)
- Dual USB port for direct powering from controller
- Preset / multiple charging profiles for different battery types
- Overcharge and discharge protection (low voltage disconnect)
- Temperature monitoring, further protect and optimize charging

**DIMENSIONS**



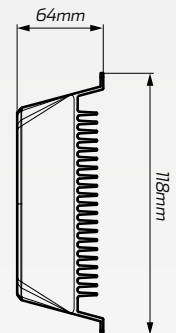
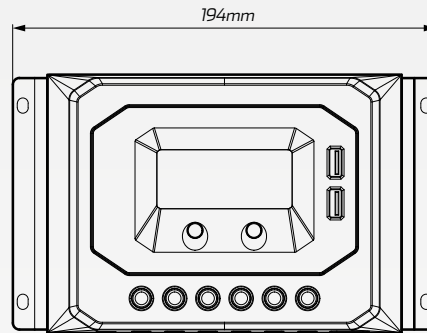
Dual USB Port



Digital LED Screen



Temp. Sensor



**TECHNICAL SPECIFICATIONS**

<b>Nominal Input Voltage</b>	• 12/24V DC
<b>Battery Voltage Range</b>	• 9 - 32V (Input), 12 / 24V (charge)
<b>Max Input</b>	• 50V, 45A
<b>Rated Charge/Discharge</b>	• 45A @ 55°C
<b>Battery Type</b>	• AGM / Gel / Flooded
<b>Absorption Charging Voltage</b>	• 12V: AGM: 14.4V / Gel: 14.2V / Wet: 14.6V • 24V: AGM: 28.8V / Gel: 28.4V / Wet: 29.4V
<b>Equalize Charging Voltage</b>	• 12V: AGM: 14.6V / Gel: No / Wet: 14.8V • 24V: AGM: 29.2V / Gel: No / Wet: 29.6V
<b>Float Charging Voltage</b>	• AGM / Gel / Wet: 13.8V
<b>Low Voltage Reconnect</b>	• AGM / Gel / Wet: 12.6V @ 12V / 25.2V @ 24V
<b>Low Voltage Disconnect</b>	• AGM / Gel / Wet: 11.1V @ 12V / 22.2V @ 24V
<b>Self-consumption</b>	• <=9.2mA/12V; <=11.7mA/24V

<b>Temperature Compensation Coefficient</b>	• -3mV/°C/2V (25°C)
<b>Charge Voltage Drop</b>	• <=0.29V
<b>Discharge Voltage Drop</b>	• <=0.16V
<b>LCD Temperature Range</b>	• -20°C to 70°C
<b>Working Environment Temperature</b>	• -25°C to 55°C (product work continuously at full load)
<b>Relative Humidity</b>	• <=95%, N.C.
<b>IP Rating</b>	• IP30 rated
<b>Grounding</b>	• Common positive
<b>USB Output</b>	• 5V DC/2.4A (total)
<b>Overall Dimensions</b>	• 194mm x 118.4mm x 63.8mm
<b>Mounting Dimensions</b>	• 185mm x 90mm