

Product data sheet Characteristics

AEH-SCC04-6A

Solar Charge Controller with USB – 6A



Main

Maximum PV voltage	25 V DC
Maximum rated output current	6A continuous load 7.2A for 1 hour
Maximum rated output power	72W
Rated Output Voltage	
• Load 1	12 V
• Load 2	12 V
High voltage disconnect	14.3 ± 0.2 V
Low voltage disconnect	11.6 ± 0.1 V
Low voltage reconnect	12.6 ± 0.2 V
Battery float voltage(float voltage for Lead-Acid Selection)	13.8 ± 0.1 V
Cell Phone Charger Port	5.5 ± 0.2 V, $550\text{mA} \pm 50$ mA
Battery low cut	11.6 ± 0.1 V

Complementary

Short circuit protection	YES
Type of Mobile Connector	USB
Reverse load protection	Yes
Reverse Battery protection	Yes
Reverse PV protection	Yes
Inherent temperature protection	Yes
Over current from PV to battery protection	Yes
Over current from PV to load protection	Yes
Over current from battery to load protection	Yes
Reverse current protection from battery to PV at night	Yes
Short circuit protection on the load side	Yes
Case protection	IP21
Overload indication	Fault LED(Red) blinking every one sec
Short circuit indication	Fault LED(Red) Steady

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Low battery indication	Batt. SOC LED(bicolor) glows Red & continuous ON
Battery voltage is beyond the limit	Batt. SOC LED(bicolor) Red & overload LED(Red) both ON
Low voltage disconnect to recovery	Batt. SOC LED(bicolor) glows Red
State of charge Batt. 11.6V to 12.6V	Batt. SOC LED(bicolor) blink
State of charge Batt. > 12.6V to 13V	Batt. SOC LED(bicolor) glows orange & continuous ON
State of charge Batt. > 13V	Batt. SOC LED(bicolor) glows Green & continuous ON
Solar charging Batt. < 14.3V	Solar LED green & continuous ON
Solar charging Batt. > 14.3V	Solar LED green & blinking
Maximum No load current	<15mA
Efficiency	>97%
110% < load < 130%	1 Hr ON, then OFF for 1Min, continuous cycle

Mechanical Specifications

Over all dimensions (L x B x H)	140 x 130 x 58 mm
Net weight	0.21 Kg
Gross weight	0.29 Kg

Environmental

Operating temperature	-4°C TO 45°C
Relative humidity	90%

Packaging Information

Type	Dimensions (L x B x H in mm)	Net weight (Kg)	Gross weight (Kg)	No. of units
Unitary package	145 x 135 x 70	0.21	0.29	1

*SOC : State of Charge

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