



smartharvest[™]
by OutBack Power

PWM Charge Controller Series

SmartHarvest by OutBack represents a line of renewable energy electronics aimed at meeting the growing global demand for value-orientated, low power-range renewable energy system components.



SmartHarvest SCCP05-050 Specifications

Maximum Output Current (I)	5
Nominal Battery Voltages	12 / 24
Input Panel Power (W _p)	85 / 170
Panel Intelligence	PWM
Maximum Input Voltage (VOC)	25 / 50
Charging Regulation	Four stages: bulk, absorb, float and equalize
Bulk Voltage (VDC)	Flooded: 14.8 / 29.6 VRLA: 14.6 / 29.2
Absorb Voltage (VDC)	Flooded: 14.8 / 29.6 VRLA: 14.4 / 28.8
Absorb Time	2 hours
Float Voltage (VDC)	Flooded: 13.2 / 26.4 VRLA: 13.5 / 27.0
Equalization Voltage (VDC) (Flooded Batteries Only)	Flooded: 15.5 / 31.0
Equalization Time	1 hour
State of Charge Low Voltage Disconnect (V)	11.4 / 22.8
Low Battery Load Reconnect (VDC)	12.4 / 24.8
High Battery Load Disconnect (VDC)	15.0 / 30.0
Temperature Compensation	-5mV/°C
Battery Type Selection	VRLA/Flooded selectable via jumper. Factory default VRLA (jumper inserted)
Data Logging	Available with monitoring software
Standby Current (mA)	6.8
Display	3 LEDs
IP Class	IP20
Operating Temperature Range	-40 to 60°C
Humidity	0-95% RH non-condensing
Dimensions H x W x D (in/cm)	2.6 x 6.3 x 1.0 / 6.8 x 15.9 x 2.5
Weight (lb/kg)	0.39 / 0.18
Certifications	CE, IEC/EN 62109-1
Warranty	Standard 2 year, extendable to 5 years with fee

Product Highlights—SCCP05-050

- 5A/50V Pulse-Width Modulation (PWM) charge controller for specific charging applications
- PWM technology for the right balance between economy and performance in smaller systems
- Integrated LED display
- Backed by OutBack Power's global sales and support network

Product Description

The right charge controller for small or single-purpose Photovoltaic (PV) systems.

PWM charge controllers are an elegant, proven system solution. SmartHarvest's SCCP05-050 scales this economical solution for use in small PV systems dedicated to specific applications, such as powering a light, an appliance or charging a back-up battery system connected to a smart phone, PC, wireless network adapter or other critical electronic device.

PWM charge controllers use advanced digital signal processing to anticipate battery charging needs and affect the right amount of control. They are an excellent choice for smaller systems operating under consistent solar conditions where utilizing economical PWM technology helps allocate more of the system budget to other areas such as energy storage. The SCCP05-050 is the perfect charging solution when performance and economics are of equal priority.

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