



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)	10
Nominal Battery Voltages	12 / 24
Input Panel Power (W _p)	120 / 240
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—SCCP10-050

- 10A/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 most cost-effective option for integrating energy storage into PV system design.

With the goal of making an elegant, proven system power electronics type even better, SmartHarvest has elevated the PWM baseline with its SCCP charge controllers to give every system the benefits of both high-efficiency and economy. PWM charge controllers use advanced digital signal processing to anticipate battery charging needs and affect the right amount of control.

The SCCP10-050 is an excellent choice for smaller systems operating under consistent solar conditions where utilizing an economical PWM technology helps to allocate more of the system budget to energy-producing components such as additional panels. The SCCP10-050 is not only the right tool for the job, but the right investment over the life of the system through dependable, long-term performance engineering by SmartHarvest.

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