



SmartHarvest by OutBack products are aimed at meeting the growing global demand for value-orientated, low power-range renewable energy system components.



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 Pulse-Width Modulation (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.

Product Highlights

- 10A/50V 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

Models: SCCP10-050

Maximum Output Current (I)	10
Minimum Load Current	0.25A
Nominal Battery Voltages	12 / 24
Input Panel Power (Wp)	120 / 240
Panel Intelligence	PWM
Maximum Input Voltage	25VOC / 50VOC
Charging Regulation	Four stages: bulk, absorb, float and equalize
Bulk Voltage	Flooded: 14.8VDC / 29.6VDC VRLA: 14.6VDC / 29.2VDC
Absorb Voltage	Flooded: 14.8VDC / 29.6VDC VRLA: 14.4VDC / 28.8VDC
Absorb Time	2 hours
Float Voltage	Flooded: 13.2VDC / 26.4VDC VRLA: 13.5VDC / 27.0VDC
Equalization Voltage (Flooded Batteries Only)	Flooded: 15.5VDC / 31.0VDC
Equalization Time	1 hour
State of Charge Low Voltage Disconnect	11.4V / 22.8V
Low Battery Load Reconnect	12.4VDC / 24.8VDC
High Battery Load Disconnect	15.0VDC / 30.0VDC
Temperature Compensation	-25mV / 5°C / Cell
Battery Type Selection	VRLA/flooded selectable via jumper factory default VRLA (jumper inserted)
Data Logging	Available with monitoring software
Self-Consumption (Asleep/Awake)	6.8mA / 60mA
Display	3 LEDs
IP Class	IP20
Operating Temperature Range (°C)	-40 to 60
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