



smartharvest[™]
by OutBack Power

MPPT 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 SCCM10-100 Specifications

Maximum Output Current (I)	10
Nominal Battery Voltages	12 / 24
Input Panel Power (W_p)	150 / 300
Panel Intelligence	MPPT
Maximum Input Voltage (VOC)	100
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	Internal data logging up to one week, longer data logging available with monitoring software.
Standby Current (mA)	<5
Peak Efficiency	97%
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)	4.3 x 7.8 x 1.8 / 11.0 x 19.7 x 4.5
Weight (lb/kg)	1.10 / 0.50
Certifications	CE, IEC/EN 62109-1
Warranty	Standard 2 year

Product Highlights—SCCM10-100

- 10A/100V Maximum Power Point Tracking (MPPT) charge controller for off-grid and grid-connected PV systems with energy storage
- MPPT charge controller ensures maximum yield from available solar energy
- Integrated LED display
- Backed by OutBack Power's global sales and support network

Product Description

The most economical means of integrating MPPT technology into any PV system

SmartHarvest's mission is to make the advanced technologies usually associated with premium PV energy systems available to users regardless of their system sizes or budgets. The SCCM10-100 accomplishes this goal by placing MPPT charge controller capability within the reach of a much wider application base, ensuring higher system yields at the power and size levels where that advantage can make the most difference.

By maximizing solar energy harvesting under a wider variety of environmental conditions, MPPT technology helps the system extract as much electricity as possible for more effective energy storage—making the innovative SCCM10-100 ideal for use in efficiency-driven applications that can benefit from improved advanced charger technology.

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