

Sollatek

SOLAR CHARGE CONTROLLERS



SUNPOWER 6

Applications:

- Small lighting and power systems
- Billboard lighting
- Rural electrification
- Solar home systems
- Telemetry
- Remote monitoring and control
- Animal feeding and supervision systems

Features:

- 12 & 24 volt versions available
- Tamper-proof fixed voltage thresholds (options available).
- Lightning protection
- Reverse polarity protected
- Overload protection with automatic reconnection
- Reverse discharge prevention
- Low power consumption
- Pulse width modulation (PWM) charging technique
- Solid state MOSFET technology
- Microprocessor controlled
- Status indication by 5 LEDs



SPCC10 & 10E

Applications:

- Small/medium sized applications
- Rural electrification
- Home lighting systems
- Beacons
- Remote telemetry

Features:

- Microprocessor controlled - (10E)
- Field adjustable voltage threshold
- 12 or 24V field selectable (10E)
- Has inbuilt street lighting timer (10E)
- Reverse polarity protected
- Lightning protection
- Overload protection
- Low power consumption
- Four LEDs to show status (10)
- Five LEDs to show status (10E)
- Remote battery sense (10E)
- Remote temperature compensated (10E)
- Microprocessor controlled
- Test/reset/LVD break switch (10E)



SPCC16

Applications:

- Medium sized applications
- Rural electrification
- Home lighting systems
- Street lighting
- Billboard lighting
- Beacons
- Remote telemetry

Features:

- Field adjustable voltage thresholds (four)
- Two stage charging (linear & boost)
- 12V and 24V field selectable
- Reverse polarity protected
- Lightning protection
- Overload protection (fuse)
- Very low power consumption
- Remote battery sense
- Temperature compensated battery charging
- LVD break switch
- Status indication by 5 LEDs
- High efficiency solar diode by-pass system



SUNPOWER 30

Applications:

- Medium to large sized applications
- Larger power generation systems
- Unattended telecoms relay stations
- Commercial lighting
- Street lighting
- Billboard lighting

Features:

- Two stage charging (linear & boost)
- 12V or 24V field selectable
- Reverse polarity protected
- Lightning protection
- Low power consumption
- Remote battery sense
- Temperature compensated battery charging
- LVD break/reset/test switch
- Status indication by 5 LEDs
- Microprocessor controlled
- High efficiency diode-less discharge protection
- Optional digital LCD to display battery voltage



SCC

Applications:

- Designed for professional systems such as microwave repeaters & large scale rural electrification
- Suitable for use as part of hybrid power systems
- Cathodic protection
- Large power generation plants
- Large scale remote commercial lighting

Features:

- Available in 12V, 24V and 48V versions
- Unique solid state switching technique for high efficiency and high reliability
- Microprocessor controlled
- Modular, configurable system construction
- Fully adjustable voltage thresholds, locked by maintenance switch
- Multi-tier charging algorithm to accurately match solar current with load and battery charging requirements for optimum battery management
- Temperature compensation and lightning protection
- True 4-terminal battery voltage sensing

SPECIFICATIONS

Model	SunPower6		SPCC10		SPCC10E		SPCC16E		SunPower30		SCC		
	12V	24V	12V	24V	12V	24V	12V	24V	12V	24V	12V	24V	48V
Solar Current	6		10		10		16		30		Up to 960A depending on model		
Load Current	6		10		10		16		30		Up to 960A depending on model		
Nominal Voltage	12V	24V	12V	24V	12/24V		12/24V		12V	24V	12V	24V	48V
System Voltage	Fixed		Fixed		Field selectable		Field selectable		Fixed		Fixed		
Voltage Thresholds	Fixed		Some Adjustable		Adjustable		Adjustable		Adjustable		Field selectable		
LVD	11.3V	22.6V	10 - 12V	20 - 24V	10 - 12V	20 - 24V	10 - 12V	20 - 24V	10 - 12V	20 - 24V	10 - 12V	20 - 24V	40 - 48V
LV Hysteresis	1.2V	2.4V	1.2V	2.4V	0.5V - 1.0V	1.0V - 2.0V	0.5V - 1.0V	1.0V - 2.0V	0.5V - 1.0V	1.0V - 2.0V	0.5V - 1.0V	1 - 2V	2 - 4V
HVD	13.9V	PWM 27.8V	13-15V	26 - 30V	13 - 15V	26 - 30V	13 - 15V	26 - 30V	13 - 15V	26 - 30V	13 - 15V	26 - 30V	52 - 60V
HV Hysteresis	N/A	N/A	1.5V	3.0V	0.5V - 2.0V	1.0V - 4.0V	0.5V - 2.0V	2.0V - 1.0V	0.5V - 1.0V	1.0V - 2.0V	0.5V - 2.0V	1 - 4V	2 - 8V
Max. Current Consumption	8.5 mA	8 mA	35 mA	18 mA	8 mA		12 mA		110mA	61mA	0.4A	0.2A	0.1A
Temperature Compensation ¹	Optional		No		Optional		Optional		Optional		Yes		
Battery Sense	No		No		Yes		Yes		Yes		Internal 2 wire or external 4 wire		
System Status Indication	5 x LEDs		4 x LEDs		5 x LEDs		5 x LEDs		5 x LEDs (LCD Option)		36 LEDs plus 7 segment display		
Timer (dusk/dawn or 2-10 hrs)	Optional (fixed)		No		Yes		No		Yes		Yes - Up to 5 Fully Programmable		
Connections Type	Screw		Screw		Screw		Screw		Screw		Large screw terminals		
Maximum Wire Gauge	6 mm ²		4 mm ²		6 mm ²		6 mm ²		16 mm ²		Depends on system size & configuration		
Enclosure Protection Rating	Encapsulated		IP54		IP54		IP54		IP54		IP51		
Open Circuit Protected	Yes		Yes		Yes		Yes		Yes		Yes		
Overload Protected	Yes		Yes		Yes		Yes		Yes		Yes		
Short Circuit Protected	Yes		Yes		Yes		Yes		Yes		Yes		
Lightning Protection	MOV on all terminals		MOV on all terminals		MOV on all terminals		MOV on all terminals		MOV on all terminals		MOV on all terminals		
Reverse Polarity Protected	Yes		Yes		Yes		Yes		Yes		Yes		
Operating Temperature Range	0°C - 70°C		0°C - 70°C		0°C - 70°C		0°C - 70°C		0°C - 70°C		0°C - 70°C		
Warranty Period	Two Years		Two Years		Two Years		Two Years		Two Years		Two Years		
Packaging	50 Per Carton		Full Colour Retail		Full Colour Retail		Full Colour Retail		Full Colour Retail		Individual		
Unit Packed Dimensions	90 x 72 x 37mm		230 x 135 x 55mm		230 x 135 x 55mm		230 x 135 x 55mm		230 x 135 x 55mm		720x420x920mm (180A unit)		
Unit Weight	0.2 Kg		0.6 Kg		0.6 Kg		0.6 Kg		0.6 Kg		35 Kg (180A unit)		
Carton quantity	50		40		40		40		40		1		
Carton weight	10kg		25.5kg		25.5kg		25.5kg		25.5kg		61.5kg		
Order Code	94061205	94062405	94100000	94100100	94105000		94160000		94301200	94302400	Contact Sollatek		
Order Number + Temp Comp	94061200	94062400	N/A		94105000		94160000		94301200	94302400	Contact Sollatek		
¹ Temp Comp Probe	94900000		N/A		94900000		N/A		94900000		Contact Sollatek		



Sollatek provides you with full back up support and a two year worldwide warranty on all products, with local support in over twenty countries worldwide.



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