

Solar Charger with Street Light Timer and DC Load Control









Features

- Twelve versions available (12 / 24 / 48 volts 10~45 amps)
- · 100% solid state
- True 0 to 100% PWM duty cycle
- · Set point accuracy to 50mV
- Rated for 150% overloads
- · Fully encapsulated in epoxy potting
- Battery Temperature compensation
- 8 types of charging curve selection
- · No need to derate

- Green charging LVD indicators
- · Microcontroller digital accuracy
- · 16 field adjustable lighting control options
- Special on / off / on functions
- · Manual test capability
- · LVD override protection
- · Detects day and night using the PV array
- Suitable for all 12 / 24 / 48 Vdc lamps
- · Includes battery charging circuit
- Optional LCD remote panel for 30 amps and 45 amps model

Specifications

Model No.	SW-10CL	SW-20CL	SW-30CL	SW-45CL		
ELECTRICAL						
System Voltage Ratings	12, 24, 48 Vdc					
Current Ratings-Battery Charge Control	10A	20A	30A	45A		
Current Ratings-Load Control/Lighting Control	10A	20A	30A	45A		
Accuracy	12 / 24V:≦0).1 % ± 50 mV	48V:≦0.1	% ±100 mV		
Min. Voltage to Operate	9 V					
Max. Solar Array Voc	140 V					
Max. Operating Voltage	68 V					
Total Current Consumption	While operating-25mA, at idle-3mA					
High Temp Shutdown	80°C disconnect solar 80°C disconnect load 70°C reconnect solar / load					
LVD	11.1V (Defult setting) User select: 10.5V, 11.3V, 11.5V, 11.7V, 11.9V, 12.1V, 12.3V for 12V system Twice or four times of 12V is for 24V and 48V system					
LVR	12.6V (Defult setting) User select: 12.0, 12.8V, 13.0V, 13.2V, 13.4, 13.6, 13.8 for 12V system Twice or four times of 12V is for 24V and 48V system					

Overload Capacity	150% of rated current for transient surge						
BATTERY CHARGING / Built-in BTS							
Charge Algorithm	PWM, constant voltage						
Temp Comp. Coefficient	-5mV/ °C/cell (25 °C ref)						
Temp Comp. Range	0 °C to +50 °C						
Temp Comp. Setpoints	PWM, float, equalize (with BTS)						
MECHANICAL							
Dimension (H x W x D) mm	65×168×35		65 x 236 x 35	135 x 172 x 46			
Weight (kgs)	0.3		0.4	0.7			
Power Terminals	10A Rated	20A Rated	30A Rated	45A Rated			
ENVIRONMENTAL							
Ambient Temperature	−40 to +45 °C						
Storage Temperature	− 55 to +85 °C						
Humidity	100% (NC)						
Enclosure	Indoor & vented						
OPTIONS							
Remote Panel	Optional LCD display for SW-30CL, SW-45CL only						



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