

BlueSolar PWM Light Charge Controllers are widely used to charge batteries with solar power. The **PWM Controller** is a switch that connects a solar array to the battery. The result is that the voltage of the array will be pulled down to near that of the battery.

Features:

- Load output with low-battery voltage disconnect function
- Lighting control function, one timer only
- Two-digit seven-segment display for quick and easy setting of the load output functionality, including timer setting
- Three-stage battery charging (bulk, absorption, float), not programmable
- Load-output protected against overload and short-circuit
- Protected against reverse-polarity connection of the solar array and the battery



BlueSolar PWM Light	12/24-5 Part No.: TBA	12/24-10 Part No.: T750020023	12/24-20 Part No.: T129616902	12/24-30 Part No.: TBA
Battery Voltage	12/24 V with automatic system voltage detection			
Rated Charge Current	5 A	10 A	20 A	30 A
Automatic Load Disconnect	Yes			
Maximum Solar Voltage	28 V/55 V ⁽¹⁾			
Self-Consumption	< 10 mA			
Load Output	Manual control + low-voltage disconnect			
Protection	Battery reverse polarity (fuse); Output short-circuit; Over temperature			
Overload Protection	Shut down after 60 s in case of 130% load			
	Shut down after 5 s in case of 160% load			
	Short-circuit: immediate shut down			
Grounding	Common positive			
Operating Temp. Range	-20 °C to +50 °C (full load)			
Humidity (Non-Condensing)	Max. 95%			
BATTERY				
Charge Voltage 'Absorption'	14.2 V/28.4 V			
Charge Voltage 'Float'	13.8 V/27.6 V			
Low Voltage Load Disconnect	11.2 V/22.4 V			
Low Voltage Load Reconnect	12.6 V/25.2 V (manual) 13.1 V/26.2 V (automatic)			
ENCLOSURE				
Protection Class	IP20			
Terminal Size	5 mm/AWG10			
Weight	0.15 kg			0.2 kg
Dimensions (h x w x d)	70 x 133 x 33.5 mm			
STANDARDS				
Safety	IEC 62109-1			
EMC	EN 61000-6-1, EN 61000-6-3, ISO 7637-2			

⁽¹⁾ For 12-V use 36-cell solar panels. For 24-V use 72-cell solar panels or 2 x 36-cell solar panels in series


 POWER
SUPPLY

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