

BlueSolar PWM Light Charge Controllers are widely used to charge batteries with solar power. The **PWM Controller** is in essence 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 over load and short circuit
- Protected against reverse polarity connection of the solar array and/or 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 in series

(2) The controller switches to the lower float voltage level 2 hours after the absorption voltage has been reached. Whenever the battery voltage becomes lower than 13 V, a new charge cycle is triggered.

These may not be stock items. Please speak to our sales representative about lead times. Lead times, price, and availability can only be determined on receipt of an official quote from our supplier. This can sometimes take up to 3 days.

Gauteng - Jet Park (HQ):

T: +27 (0)11 823 5650

Free State - Bloemfontein:

T: +27 (0)63 257 0505

Eastern Cape - Port Elizabeth:

T: +27 (0)82 450 6596

KwaZulu Natal - Pinetown:

T: +27 (0)31 303 4129

Mpumalanga - Middelburg:

T: +27 (0)13 692 8132

Northern Cape - Kathu:

T: +27 (0)53 723 3415

Northern Cape - Springbok:

T: +27 (0)60 570 8092

North West - Rustenburg:

T: +27 (0)14 596 5257

Western Cape - Cape Town:

T: +27 (0)21 945 1453

Botswana, Gaborone:

T: +267 399 4150

Botswana, Jwaneng:

T: +267 72 779 538

Botswana, Letlhakane:

T: +267 297 8568

Mozambique, Tete:

T: +258 252 20666

Zambia, Kitwe:

T: +26 (0)21 222 5338

Follow us...



Call us today!

 AUTO-ELECTRICAL ENGINEERING

Delivering Optimal **Uptime!**