

BlueSolar PWM-Pro charge controllers

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BlueSolar PWM-Pro 10 A



BlueSolar Pro Remote Panel

Programmable

The BlueSolar PWM-Pro series is ready for use with its default settings.

It also is fully programmable:

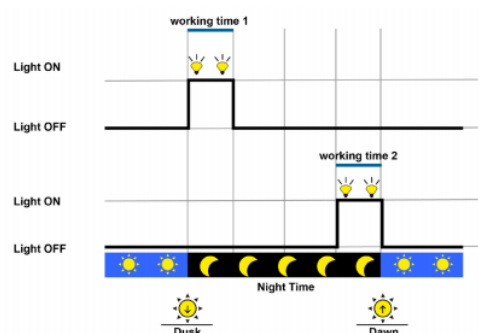
- With help of a computer and software (available free of charge from our website)
- With the dedicated BlueSolar Pro Remote Panel (see features below).

Features

- Lighting control function, fully programmable.
- Three stage battery charging (bulk, absorption, float), fully programmable.
- Integrated battery monitor function (Remote Panel needed to display state of charge).
- Load output with low voltage disconnect and manual control (default setting).
- Optional external temperature sensor.
- Load output protected against over load and short circuit.
- Protected against reverse polarity connection of the solar array and/or battery.

Day/night timing options

See Remote Panel manual for details



Blue Solar PWM-Pro	12/24-5	12/24-10	12/24-20	12/24-30
Battery Voltage	12/24V 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
Battery temperature sensor	Optional (article SCC940100100)			
Temperature compensation	-30 mV / °C resp. -60 mV / °C (if temperature sensor installed)			
Remote panel	Optional (article SCC900300000)			
Grounding	Common positive			
Operating temp. range	-20 to +50°C			
Humidity (non condensing)	Max 98 %			
DEFAULT SETTINGS				
Absorption charge (2)	14.4 V / 28,8 V			
Float charge (2)	13.8 V / 27,6 V			
Equalization charge (2)	14,6 V / 29,2 V			
Low voltage load disconnect	11,1 V / 22,2 V			
Low voltage load reconnect	12,6 V / 25,2 V			
ENCLOSURE				
Terminal size	4 mm ²	4 mm ²	10 mm ²	10 mm ²
Protection category	IP30			
Weight	0,13 kg	0,13 kg	0,3 kg	0,5 kg
Dimensions (h x w x d)	138x70x37 mm 5.4x2.7x1.4 inch	138x70x37 mm 5.4x2.7x1.4 inch	160x82x48 mm 6.3x3.2x1.9 inch	200x100x57 mm 7.9x4.0x2.3 inch
STANDARDS				
Safety	IEC 62109-1			
Emission	EN 61000-6-1, EN 61000-6-3, ISO 7637-2			
1) For 12V use 36 cell Solar panels For 24V use 72 cell Solar panels				