

# BlueSolar PWM-Light 48V Charge Controllers

www.victronenergy.com



BlueSolar PWM-Light 48-30

## Features

- Load output with low battery voltage disconnect function.
- Lighting control function, one timer only.
- 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.

## Day/night timing options

See manual for details

BlueSolar PWM-Light	48-10	48-20	48-30
Battery Voltage	48V		
Rated charge current	10A	20A	30A
Automatic load disconnect	Yes		
Maximum solar voltage	100 V		
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 to +50°C (full load)		
Humidity (non-condensing)	Max 95%		
<b>BATTERY</b>			
Bulk charge	58,0V (1)		
Charge voltage 'absorption'	56,8V		
Charge voltage 'float'	55,2V		
Low voltage load disconnect	44,8V		
Low voltage load reconnect	50,4V (manual) 52,4V (automatic)		
<b>ENCLOSURE</b>			
Protection class	IP20		
Terminal size	6 mm <sup>2</sup> / AWG10		
Weight	0,17 kg		
Dimensions (h x w x d)	95 x 140 x 33,5 mm		
<b>STANDARDS</b>			
Safety	IEC 62109-1		
EMC	EN 61000-6-1, EN 61000-6-3		

- 1) The Controller immediately switches to the lower absorption voltage level after the bulk charge level has been reached.