

BlueSolar PWM-Light 48V Charge Controllers



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%					
BATTERY						
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)					
ENCLOSURE						
Protection class	IP20					
Terminal size	6 mm² / AWG10					
Weight	0,17 kg					
Dimensions (h x w x d)	95 x 140 x 33,5 mm					
STANDARDS						
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.