

# BlueSolar PWM-Light 48V Charge Controllers

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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)<br>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.