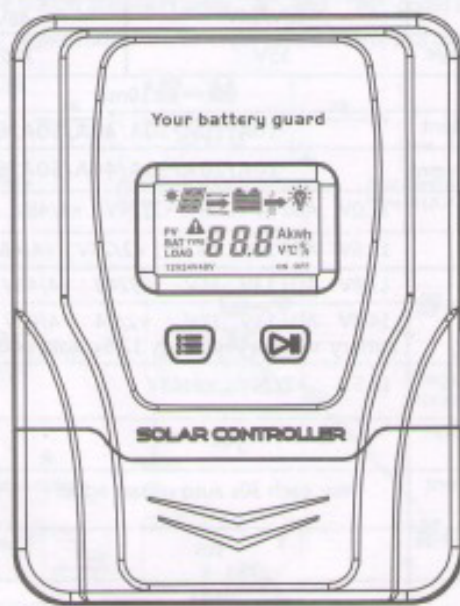


# SOLAR CHARGE CONTROLLER

Ocean Dream Series



## Mechanical size

| Charge and load current           | 10A               | 20A | 30A/40A           | 50A               | 60A               |
|-----------------------------------|-------------------|-----|-------------------|-------------------|-------------------|
| Size (L×W×H)mm                    | 165×120×39.4      |     | 170×130×50        | 190×145×55        | 190×145×56        |
| Mounting holes distance (A×B×C)mm | 84×92×134         |     | 111×114×124       | 128×128×124       | 128×128×124       |
| Weight (g)                        | 225               | 350 | 480               | 690               | 780               |
| Terminal scale                    | 10mm <sup>2</sup> |     | 16mm <sup>2</sup> | 25mm <sup>2</sup> | 25mm <sup>2</sup> |

## Technical Data

|                                        |                                                                                            |      |
|----------------------------------------|--------------------------------------------------------------------------------------------|------|
| System Voltage                         | 12V/24V                                                                                    | 48V  |
| PV Max Input Voltage                   | 55V                                                                                        | 100V |
| Self-consumption                       | ≤10mA                                                                                      |      |
| Max Charging current                   | 10A/20A/30A/40A/50A/60A                                                                    |      |
| Max Discharging current                | 10A/20A/30A/40A/50A/60A                                                                    |      |
| LVD                                    | 11.0V ADJ 9V....12V ; ×2/24V ; ×4/48V                                                      |      |
| LVR                                    | 12.6V ADJ 11V....13.5V ; ×2/24V ; ×4/48V                                                   |      |
| Float Voltage                          | 13.8V ADJ 13V....15V ; ×2/24V ; ×4/48V                                                     |      |
| Boost Voltage                          | 14.4V ADJ 13V....17V ; ×2/24 ; ×4/48V<br>battery voltage less than 12.6v auto boost 2hours |      |
| Battery Over Voltage Protection        | 16.5V ; ×2/24V ; ×4/48V                                                                    |      |
| Reverse Connection Protection          | yes                                                                                        |      |
| Load Over Current Protection           | Yes, each 30s auto restart again                                                           |      |
| Controller Over Temperature Protection | Yes                                                                                        |      |
| Charging Type                          | PWM                                                                                        |      |
| Temperature Consumption                | -24 mV /°C for 12Vsystem ; ×2/24V ; ×4/48V                                                 |      |
| Working Temperature                    | -20°C---+55°C                                                                              |      |
| Waterproof grade                       | IP32                                                                                       |      |

| Battery Type             | SEL    | GEL    | FLD    | LiF<br>LiFePO4(4s/12V;<br>8s/24V) | Li3<br>Li(NiCoMn)O2<br>(3s/12V;<br>6s/24V) |
|--------------------------|--------|--------|--------|-----------------------------------|--------------------------------------------|
| Over Voltage Disconnect  | 16.0V  | 16.0 V | 16.0 V | 16.0V                             | 17.5V                                      |
| Charging Limited Voltage | 15.0 V | 15.0 V | 15.0 V | 14.8V                             | 17.0V                                      |
| Over Voltage Reconnect   | 15.0 V | 15.0 V | 15.0 V | 14.8V                             | 17.0V                                      |
| Boost charge             | 14.4 V | 14.2 V | 14.6 V | 14.6V                             | 12.6V                                      |
| Float charge             | 13.8 V | 13.8 V | 13.8 V | 14.2V                             | 12.3V                                      |
| Boost Restart Voltage    | 12.6V  | 12.6V  | 12.6V  | 13V                               | 11.5V                                      |
| Low voltage reconnect    | 12.6V  | 12.6V  | 12.6V  | 12.6V                             | 11.0V                                      |
| Low voltage disconnect   | 11.0V  | 11.0V  | 11.0V  | 11.0V                             | 9.2V                                       |