

Ocean Dream Series

OD Series PWM Solar Controller
Better than less



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Built-in screwdriver
Worry-free use,It is there whenever you need it



Simple Design, Good looking

The OD series adopts rounded corners and a simple appearance design. The white frosted plastic shell is very natural no matter where it is placed in your home or RV.

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Hidden Design

The OD series adopts a sliding cover design, which covers the terminal and screwdriver and hides the messy wires of the connection port by extending the lower edge. It can match your furniture style better.



Free USB Charging

Support high current mode, the maximum 2.4A charging current charges your mobile device faster
10A / 20A * 2 USB, Other items 4USB



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12 Safety Protections

<p>1, Automatic Voltage Switch</p>	<p>2, Over charging and over discharging protection</p>	<p>3, Overload protection</p>	<p>4, Short Circuit Protection</p>
<p>Ldsolar controller can switch the system voltage according to the battery voltage automatically</p>	<p>Ldsolar controller can prevent the battery from over charging and over discharging and increasing the battery life.</p>	<p>Ldsolar controller will cut off output, if the current of output is more than 1.1 times rated current</p>	<p>When the solar panel or the Load is short circuit, Ldsolar controller can stop charging or turn off the output immediately. It can prevent battery from damaging</p>
<p>5, Reverse Connected Protection</p>	<p>6, Battery Over Voltage Protection</p>	<p>7, Auto Temperature Compensation</p>	<p>8, Over Temperature Protection</p>
<p>If the polarity of battery or solar panel is reversely connected, Ldsolar controller will not be destroyed. After correcting the connection, Ldsolar controller will work normally.</p>	<p>When the voltage of battery was more than 16.5V (12V system), Ldsolar controller will turn off charging and output.</p>	<p>The in-built sensor in Ldsolar controller can sense the outside temperature and regulate the battery charging and over discharging. It can increase battery life up to 30%</p>	<p>When the temperature of inside controller is up to 85°C, the controller will stop charging and discharging.</p>
<p>9, Lightning Protection</p>	<p>10, Multiple load work modes</p>	<p>11, Prevent Reverse Flow of Current</p>	<p>12, Battery Type Selection</p>
<p>Ldsolar controller could protect small induction thunder</p>	<p>Ldsolar controller can automatically detect when the day sets and night begins and set a working time. It can switch on/off the output automatically</p>	<p>During nighttime when voltage of battery is more than that of solar panel, current could start flowing from battery to panels. This could be very harmful for solar panel. Ldsolar controller ensures that the current always flows from panels to batteries, and never in the reverse direction.</p>	<p>Ldsolar controller is designed for multiple battery types: Sealed, Gel, Flooded, LiFePO4 and LiO2 to ensure efficient charging.</p>

ARM architecture, high-quality 32-bit main control chip

Make your system more stable and efficient

The main control chip adopts STMicroelectronics, and the other components adopt Samsung and Fenghua Hi-tech devices to ensure the stability and life of the controller.

The running program of the upgradeable frame structure guarantees the low loss of the controller and makes it more efficient.

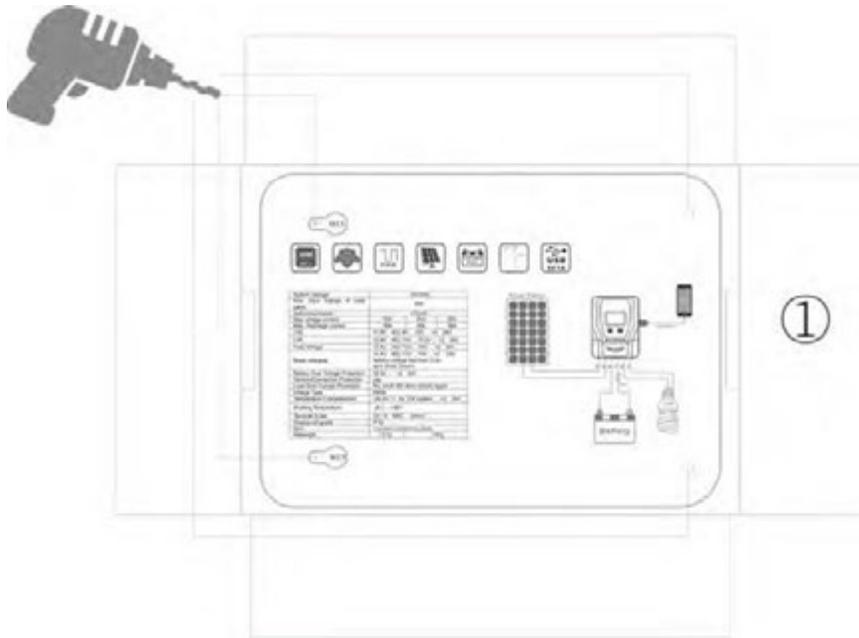




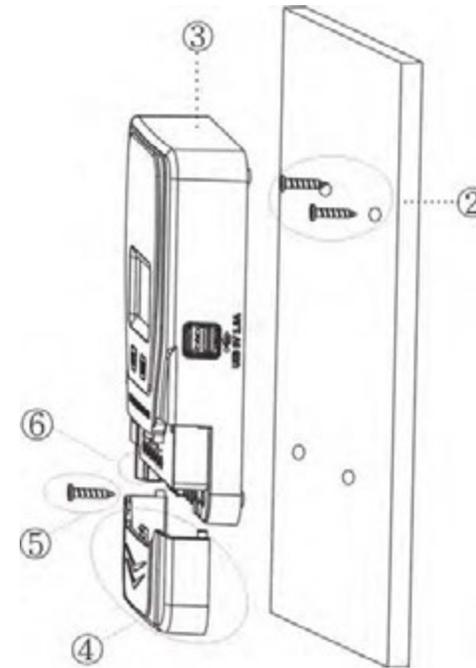
Customized large-diameter red and black terminals (Patented)

- *Customized large-diameter port is more suitable for solar systems that require large-diameter wires to reduce the voltage drop and losses in wires
- *The red and black design allows customers to distinguish positive and negative more intuitively, and good customer experience
- *The shrapnel is designed in the crimping frame to avoid breaking the wire and causing poor contact

Installation



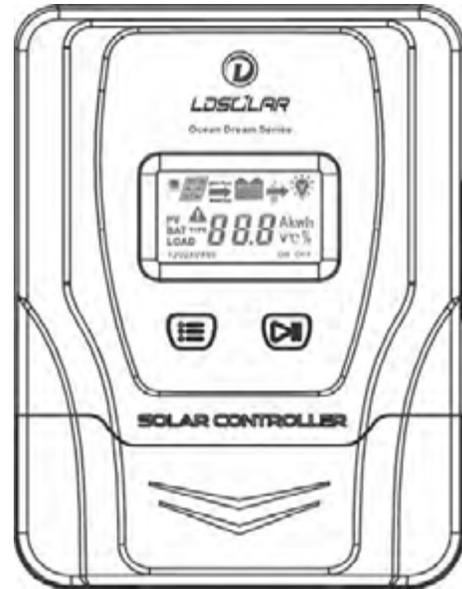
1, Find the positioning map on the back of the color box or on the manual



2, Use the positioning map to fix the screw in the position you want

3, Mount the controller. The 10A / 20A style also has two fixing holes in the terminal cover, which can be installed with screws

Packing List



Controller*1PC



User's Manual*1PC



Screwdriver*1PC



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Model	OD2410C	OD2420C	OD2430C	OD2430S	OD2440S	OD2450S	OD2460S	OD4830S	OD4840S	OD4850S	OD4860S	
System Voltage	12V/24V DC auto							12V/24V/48V DC auto				
PV Max Input Voltage	55V							100V				
Self-consumption	<10mA											
Max Charging current	10A	20A	30A	30A	40A	50A	60A	30A	40A	50A	60A	
Max Discharging current	10A	20A	20A	30A	40A	50A	60A	30A	40A	50A	60A	
Battery type	Sealed(Default)/Gel/Flood/Lithium											
LVD**	11.0V ADJ 9V...12V ; x2/24V ; x4/48V											
LVR**	12.6V ADJ 11V...13.5V ; x2/24V ; x4/48V											
Float Voltage**	13.8V ADJ 13V... 15V ; x2/24V ; M/48V											
Boost Voltage**	14.4V ADJ 13V...17V ; x2/24 ; x4/48V											
	battery voltage less than 12.6v auto boost 2hours											
Battery Over Voltage **	16.5V ; x2/24V ; x4/48V											
Reverse Connection Protection	yes											
Load Over Current Protection	Yes, each 30s auto restart again											
Controller Over Temperature	Yes											
USB Output	5VDC/2.4A 2PCS				5VDC/2.4A 4PCS							
Charging Type	PWM											
Charge circuit voltage drop	<=0.25V											
Discharge circuit voltage drop	<=0.1V											
Temperature Consumption#	For 12Vsystem:-24mV /°C ; x2/24V ; x4/48V											
Relative humidity	≤95%, N.C.											
WorkingTemperature	—20°C~+55°C(Product can work continuously at full load)											
LCD temperature range	—20°C~+70°C											
Waterproof grade	IP32											
Mounting hole size	Φ5mm											
Terminals	10mm ² /8AWG			16mm ² /6AWG		25mm ² /4AWG		16mm ² /6AWG		25mm ² /4AWG		
Weight	225g	350g	380g	480g	520g	690g	780g	500g	540g	710g	800g	
Overall dimension(mm)	165*120*39.4			170*130*50		190*145*55		170*130*50		190*145*56		



Product parameters

#when battery type is setted to Lithium battery, Temperature consumption is 0, unchangeable.
 ※Above the parameters are in 12V system at 25°C, twice in 24V system and quadruple in 48V system
 *The default value is set based on the lead-acid battery. For other battery type, please refer to the manual



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After-Sale Warranty



●Warranty

1. The PWM controller provides a 1.5 years warranty, and the MPPT controller provides a 3 years warranty.

●Factory Commitment

1. We promise that the solar controllers produced by our company are full power
2. We promise that never use old components, "Fake one, Fine 100,000RMB"

●Worry-free after sales

1. During the warranty period, non-artificial product failures occur, our company promises to replace new one for free
2. After "three-step confirmation " to quickly identify.

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Which one is right for you!

Land Dream Series	Sky Dream Series	Oceam Dream Series
		
8-bit CPU	32-bits CPU	32-bits CPU
USB(Optional)	1A USB*1(10A~40A)	2.4A USB*2/4PCS
Standard connector	Red/Black big connector	Red/Black big connector
LCD	LCD	LCD
Size from 155cm ²	Size from 155cm ²	Size from 198cm ²
Traditional Design	Golden Ratio Design	Simple hide design
Extensive Electronic Protection	Extensive Electronic Protection	Extensive Electronic Protection
PWM 3Stages charging	PWM 3Stages charging	PWM 3Stages charging
/	Over Voltage Protection	Over Voltage Protection
/	Over Temperature Protection	Over Temperature Protection
/	Lithium Battery Supported	Lithium Battery Supported
/	Battery type selected	Battery type selected
No update program	updated program	updated program
No accessory	Screws	Screwdriver



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