



Solar Charge Controller

- Professional Provider of Solar Charge Controller ■
- Solar PV Home System ■



SOLARIS CONTROLLER TECHNOLOGY

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MPPT Solar Charge Controller



SL10A

Voltage: 12/24V

Current: 10A



SL20A

Voltage: 12V/24V Auto

Current: 20A



SL30A

Voltage: 12V/24V Auto

Current: 30A



SL30A
Application
Scenarios



MPPT Solar Charge Controller



SL45A

Voltage: 12V/24V/36V/48V

Current: 45A

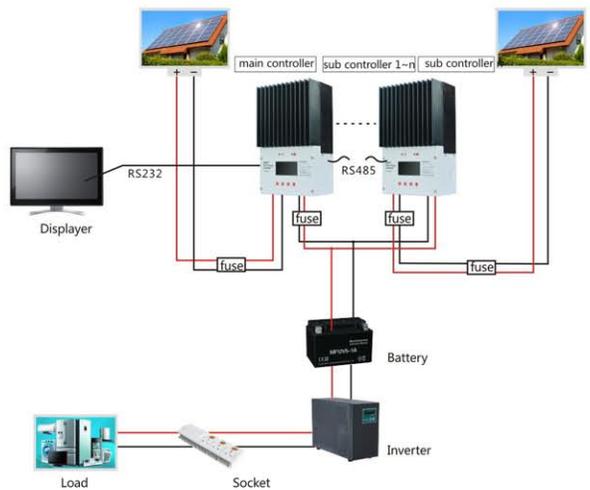
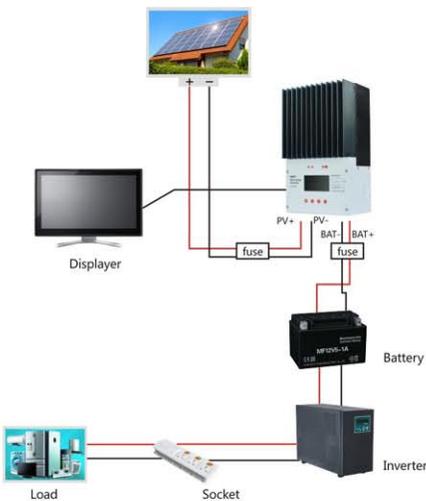


SL60A

Voltage: 12V/24V/36V/48V

Current: 60A

MPPT, short for "Maximum Power Point Tracking", is an advanced technology for solar charging by real-time tracing the maximum power point that Maximize the use of the solar power. Comparing with the common PWM controller, MPPT tech improves the power conversion efficiency by 20% at most. SRNE MPPT controller, SL series, includes 10A, 20A, 30A, 45A and 60A models for 12V/24V/36V/48V battery system.



MPPT Solar Charge Controller

SL4830 is our latest MPPT solar charge controller with new appearance design. Different from other kinds of 30A MPPT controller, this new model supports all 12/24/36/48V batteries, more durable and more beautiful. Inbuilt LCD display and RS232/RS485 communication makes it flexible while operation.



Item	SL4830
System Voltage	12V/24V/36V/48V Auto
Stand-by Consumption	0.7 W~1.5W
Max Solar Input Voltage	< 150V
Max Charge Current	30A
Max Discharge Current	20A
Max Solar Input Power	400W/12V 800W/24V 1200W/36V 1600W/48V
Efficiency	≤98%
MPPT Efficiency	> 99%
Charge Voltage Range	11.0V~15.6V ; X nV
Equalization Voltage	11.0V~15.0V ; X nV (25°C)
Boosting Voltage	11.0V~15.0V ; X nV (25°C)
Floating Voltage	11.0V~15.0V ; X nV (25°C)
Over Discharge Return Voltage	9.0V ~ 14.0V ; X nV
Over Discharge Voltage	8.0V ~ 13.0V ; X nV
Working Temperature	-35°C ~ +65°C
IP Grade	IP32

CM Wireless Remote Dimming Solar LED Lighting Controller



CM100



CM50/CM20



RMX

CM series solar charge controller is special for solar charging & LED lighting control, mostly used in solar street light. Except for the basic day/night function of common controller, the most outstanding point of CM is that it's capable of being remote programmed for dimming in 3 levels and morning lighting time control. IP68 design makes it totally waterproof and durable.

Item	CM100	CM50	CM20
Input Voltage	12V/24V Auto	12V/24V Auto	12V
Input Current	15A	8A	5A
Output Current	0.15~3.3A	0.15~1.98A	0.15~1.67A
Max LED Loading Power	50W/12V; 100W/24V	30W/12V; 50W/24V	20W
Self-consumption	9mA/12V; 12mA/24V		9mA/12V
LED Driver Efficiency	90%~96%		
Current Tolerance	±3% (loading current>300mA)		
Max LED Voltage	<60V	<60V	<60V
Working Temperature	-35°C~+65°C		
Protection Level	IP68		
Weight	280g	170g	160g
Dimension (L*W*H)	100x82x20mm	58x82x20mm	

CM-LI Wireless Remote Dimming Solar LED Lighting Controller



CM100-LI



CM20-LI
CM50-LI



RMX-LI

CM-LI series solar charge controller is specially designed for Lithium battery ,which suit for ternary Lithium, Lithium iron battery, Lithium cobalt oxides battery, etc. Except for basic day/night functions , also increased the typical remote programmed for dimming in 3 levels and morning lighting time control functions . IP68 design makes it totally waterproof and durable .

Item	CM100-LI	CM50-LI	CM20-LI
Input Voltage	12V/24V Auto	12V/24V Auto	12V
Input Current	15A	8A	5A
Output Current	0.15~3.3A	0.15~1.98A	0.15~1.67A
Max LED Loading Power	50W/12V; 100W/24V	30W/12V; 50W/24V	20W
Self-consumption	9mA/12V; 12mA/24V		9mA/12V
LED Driver Efficiency	90%~96%		
Current Tolerance	±3% (loading current>300mA)		
Max LED Voltage	<60V	<60V	<60V
Working Temperature	-35°C~+65°C		
Protection Level	IP68		
Weight	280g	170g	160g
Dimension (L*W*H)	100x82x20mm	58x82x20mm	

LS Waterproof Solar Charge Controller



LS20



LS10

LS solar charge controller is designed for LED light integrated with LED driver in a solar lighting system, and also it's capable of being used in any kinds of solar off-grid system as a common controller. IP68 design makes it totally waterproof and durable for long service life.

Item	LS10A	LS20A
Max Solar Input Voltage	12V/24V Auto	12V/24V Auto
System Current	10A	20A
Self-consumption	< 5mA/10A	< 8mA/20A
Solar Energy Input Voltage	< 55V	< 55V
Overvoltage Protection	17.0V ; ×2/24V	17.0V ; ×2/24V
Equalization Charge Voltage	14.6V ; ×2/24V (25°C)	14.6V ; ×2/24V (25°C)
Ascending Charge Voltage	14.4V ; ×2/24V (25°C)	14.4V ; ×2/24V (25°C)
Float Charging Voltage	13.8V ; ×2/24V (25°C)	13.8V ; ×2/24V (25°C)
Working Temperature	-35°C~+65°C	-35°C~+65°C
Protection Level	IP68	IP68
Weight	140g	300g
Dimension (L*W*H)	82×58×20(mm)	82×100×20 (mm)

CR Solar Charge Controller



CR10A

Voltage: 12V/24V AUTO
Current: 10A



CR20A

Voltage: 12V/24V AUTO
Current: 20A



CR30A

Voltage: 12V/24V AUTO
Current: 30A

CR series PWM controller outstands for making solar charging & battery loading management easier and simpler, with features as follows:

1. 12V / 24V auto recognition
2. LED indicators for displaying the solar charging & battery loading status.
3. Adopts the latest solar charge algorithm for battery, of which service life can be extended by protecting the battery from vulcanization, through auto equalization charge once a week.
4. Four working modes available for different loading and working circumstance.
5. Working status and parameter would be auto recorded if power failure happens, no need to re-set the controller, it's easy to operate.
6. Various kinds of electronics protection for solar panel, loading and controller.

Item	CR10A	CR20A	CR30A
System Voltage	12V/24V Auto	12V/24V Auto	12V/24V Auto
System Current	10A	20A	30A
Self-consumption	< 10mA/12V ; < 10mA/24V	< 10mA/12V ; < 13mA/24V	< 10mA/12V ; < 13mA/24V
Solar Input Voltage	< 55V	< 55V	< 55V
Overvoltage Protection	17.0V ; ×2/24V	17.0V ; ×2/24V	17.0V ; ×2/24V
Equalization Charge Voltage	14.6V ; ×2/24V (25°C)	14.6V ; ×2/24V (25°C)	14.6V ; ×2/24V (25°C)
Ascending Charge Voltage	14.4V ; ×2/24V (25°C)	14.4V ; ×2/24V (25°C)	14.4V ; ×2/24V (25°C)
Float Charge Voltage	13.8V ; ×2/24V (25°C)	13.8V ; ×2/24V (25°C)	13.8V ; ×2/24V (25°C)
Working Temperature	-35°C~+65°C	-35°C~+65°C	-35°C~+65°C
Weight	106g	218g	350g
Dimension (L*W*H)	124.7×69.4×34.0(mm)	154×72×32.7 (mm)	165.0×90.0×39.4 (mm)

LC Solar Charge Controller

LC series Solar Charge Controller is mostly used for different kinds of solar off-grid power system as a solar control unit, and it also can be individually operated like a common controller. Special bracket design makes it capable of being fixed into any kinds of solar power box, and it's flexible for different application with 2 types of DC loads (5V and 12V).



LC-C

Voltage: 12/24V
Current: 10A/20A



LC-CU

Voltage: 12/24V
Current: 10A/20A



LC-E

Voltage: 12/24V
Current: 10A/20A



LC-EU

Voltage: 12/24V
Current: 10A/20A

Main Features

1. LED indicators (E&EU version) / LCD display (C&CU version) for solar charging & battery status
2. (EU&CU version) Double USB output for mobile device charging
3. Easy to be mounted or fixed into a solar panel box, as a solar charging & DC loading unit

Specification

Model	Rated Voltage(V)	Dimension(mm)			Weight(g)
		L	W	H	
LC-CU10A	12/24	120	74	23.6	140
LC-CU20A	12/24	120	74	23.6	170
LC-EU10A	12/24	120	74	23.6	140
LC-EU20A	12/24	120	74	23.6	170

GT Series

GT high power solar charge controller is designed for solar off-grid power system, which requires large power of solar charging and DC loading, like for new energy power station of remote area, where electricity is inadequate. LCD display for solar charging & battery loading status and easy screw connector design.



Voltage: 12/24/36/48V Current: 45A



Voltage: 12/24/36/48V Current: 60A



Main Features

1. US made electronic components and chips for better function performance in extreme environment
2. LCD display for working status
3. MOS based control unit along with the latest PWM charging method increases the solar charging efficiency

Item	GT4845	GT4860
System voltage	12V/24V/36V/48V	12V/24V/36V/48V
System current	45A	60A
No-load loss	< 12mA	<25mA
Working temperature	-35°Cto +85°C	-35°Cto +85°C
Control method	Charging: PWM	Charging: PWM
Weight	1.08Kg/45A	1.32Kg/60A
Dimension	180.7*142*72(mm)	180.7*170*72(mm)

SLK Series Intelligent Wireless all-in-one MPPT solar charge controller with step-up LED driver



SLK2410



SLK2415

SLK Series MPPT solar charge controller is designed for solar street light system, which has step-up LED driver inside, and can realize 3 levels dimming and morning lighting function via wireless control. It supports both lead acid and lithium battery and the protection level is IP68 which makes it totally waterproof. The energy utilization of our SLK will be 15%-20% higher than traditional PWM controllers.

Item	SLK2410	SLK2415
System Voltage	12V/24V	
Charge Current	10A	15A
Solar Panel Power	130W/12V;260W/24V	200W/12V;400W/24V
Load Output Power	60W/12V;120W/24V	80W/12V;160W/24V
Suitable Battery	Lead acid/lithium battery	
Charge Method	MPPT	
Battery Input Voltage Range	7V~36V	
Mppt Tracking Efficiency	≥99%	
Charging Transfer Efficiency	≤98%	
Working Temperature	-40°C ~ +65°C ;	
Protection Level	IP68	
Product Size	114×88.33×24.47(mm)	142×88.33×24.47 (mm)

Solar Project Examples

Overseas Project

Location:

Oceania

Solar Panel: 200W

Application Products: LC-CU20A



Solar power system in remote area.

Location:

America

Solar Panel: 2800W

Application Products: GT4860



100 m² solar home system.

Location:

Turkey/Konya

System: 12V/80Ah

LED Light Source: 30W

Application Products: CR10A



Large Garden City Park Division in Asia.

Location:

South Africa

System: 24V

LED Light Source: 50W

Application Products: CM50



Bloemfontein project in South Africa.

Location:

Thailand

System: 24V

LED Light Source: 70W

Application Products: CM100



The installation of solar street light in Thailand.