

Shine series

Solar charge controller

Shine05/Li
Shine10
Shine1012-EU
Shine1524-EU



Cyber-USB

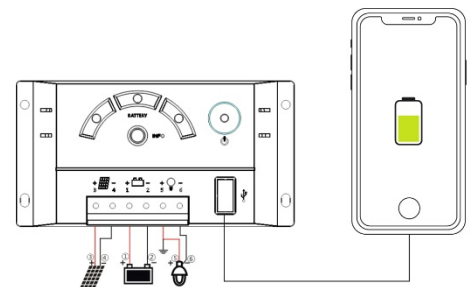
USB interface (Shine1012/1524EU)

Overview

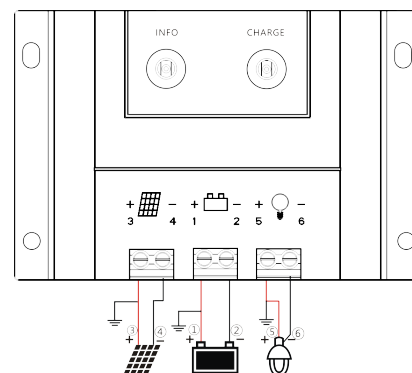
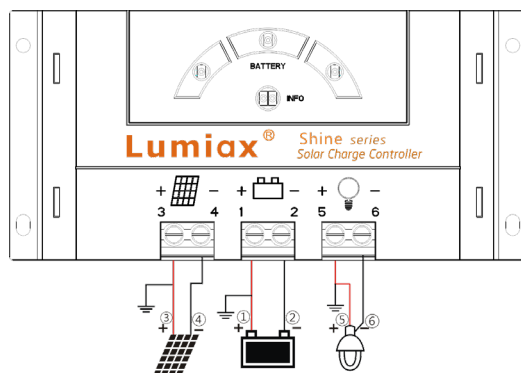
Shine series solar controller is specifically designed to meet the needs of solar home systems. It provides the best cost-effective.

It comes with a number of outstanding features, such as:

- Low cost and high reliability design, suitable for 12V system voltage
- Turn on or turn off load by switch
- Work mode optional: system, D2D
- Clear readable display of charge/discharge and error description
- Temperature compensation
- Gel, Liquid battery for selection
- Four stage charge way: fast, boost, equalization, float
- Full automatic electronic protect function
- USB interface (Shine1012/1524EU)
- For charging lithium battery, can be programmable in the factory before shipping



USB interface provides an output voltage 5V 1A of current, for charging mobile phones and other smart devices.
Only when the load is on, USB has an output!



Technical Data

	Item	Shine05	Shine10
Battery Parameters	System Voltage	12V	12/24V
	Max Charging Current	5A	10A
	Fast Voltage	<14.5V @25°C	<14.0/28.0V @25°C
	Boost Voltage	14.5V @25°C	14.5/29.0V @25°C
	Equal Voltage	14.8V @25°C (Liquid)	14.8/29.6V @25°C (Liquid)
	Float Voltage	13.7V @25°C	13.7/27.4V @25°C
	Temp. Compensation	-4.17mV/K per cell (Boost, Equal), -3.33mV/K per cell (Float)	
	Over Voltage Protection	15.5V	15.5/31.0V
	Battery Type	Liquid	Liquid, Gel
	Low Voltage Disconnect	11V	11.0/22.0V
	Low Voltage Reconnect	12.5V	12.5V/25.0V
	Max Battery Voltage	20V	40V
Panel Parameters	Max Solar Voltage	25V	55V
	Day/Night Threshold	5V	5/10V
Load Parameters	Output Current	5A	10A
	Usb Interface	---	
	Work Modes	Standard	
System Parameters	Dimensions (mm)	90*49*18	150*72*35mm
	Weight (g)	36g	130g
	Wire Size	1.5mm ²	4mm ²
	Self Consumption	5mA	5mA
	Ambient Temperature	-35~+60°C	
	Degree Of Protection	IP22	

	Item	Shine05 Li
Battery Parameters	System Voltage	12V
	Max Charging Current	5A
	Over Charge voltage	12.5V
	Over Charge release voltage	12.2V
	Load disconnect voltage	9.1V
	Load reconnect voltage	10.0V
	Battery Type	Lithium
	Max Battery Voltage	20V
	Over voltage protection	15.5V
	Panel Parameters	Max Solar Voltage
Day/Night Threshold		5.0V
Load Parameters	Output Current	5mA
System Parameters	Dimensions (mm)	90*49*18mm
	Weight (g)	36g
	Self Consumption	5mA
	Ambient Temperature	-40 ~ +60 °C
	Degree Of Protection	IP22

Technical Data

Model	Shine1012-EU	Shine1012-EULi
System voltage	12V	
Max solar or load current	10A	
Fast voltage	14.0V (25°C)	/
Boost voltage	14.5V (25°C)	/
Equalization voltage	14.8V (25°C) (Liquid)	/
Float voltage	13.7V (25°C)	/
Charging voltage target	/	12.5/14.4V
charging voltage recovery	/	12.2/14.0V
Load disconnect voltage	11.0V	9.9/11.2V
Load reconnect voltage	12.5V	9.0/12.0V
Over voltage protection	15.5V	Charging voltage target+0.2V
Work mode	System, D2D(Dusk to Dawn)	
Battery type	Liquid(default)/Gel	3s Lithium/4s LiFePO4(default)
Temperature compensation	-4.17mV/K per cell (boost, equalization),	/
	-3.33mV/K per cell (float)	
Max voltage at solar terminals	25V	
Max voltage at battery terminals	20V	
Dimensions/Weight	126*66*33mm / 110g	
Max. wire size	4mm ²	
Self consumption	6mA	
Ambient temperature	-35°C ~ +60 °C	
Protection level	IP22	
USB interface	5V, 2A	

Model	Shine1524-EU	Shine1524-EULi
System voltage	12V/24V	
Max solar or load current	15A	
Fast voltage	14.0V/28.0V (25°C)	/
Boost voltage	14.5V /29.0V(25°C)	/
Equalization voltage	14.8V /29.6V(25°C) (Liquid)	/
Float voltage	13.7V/27.4V (25°C)	/
Charging voltage target	/	14.4V/28.8V
charging voltage recovery	/	14.0V /28.0V
Load disconnect voltage	11.0V	11.2V/22.4V
Load reconnect voltage	12.5V	12.0V/24.0V
Over voltage protection	15.5V	Charging voltage target+0.2V
Work mode	System, D2D(Dusk to Dawn)	
Battery type	Liquid/Gel (default)	4s LiFePO4(default)/8s LiFePO4
Temperature compensation	-4.17mV/K per cell (boost, equalization),	/
	-3.33mV/K per cell (float)	
Max voltage at solar terminals	25V	
Max voltage at battery terminals	35V	
Dimensions/Weight	126*66*33mm / 110g	
Max. wire size	4mm ²	
Self consumption	6mA	
Ambient temperature	-35°C ~ +60 °C	
Protection level	IP22	
USB interface	5V, 2A	