



Shiner Series

MPPT solar power Charging
& Discharging controller

Shiner2410/2420/2430/2440/2460/4820

FEATURE

- ☐ Connectable to both PV, battery and load
- ☐ Highly integrated to save installation space and wiring for the user
- ☐ Supports various communication methods
- ☐ Adopting high quality aluminium heat dissipation to ensure reliable and efficient operation.
- ☐ Supports 17 kinds of load working modes

ABOUT SRNE

- ☐ SRNE 15 years in PV industry, committed to independent R&D and production.
- ☐ Holds over 200 patents in energy storage, with unique industry-leading technologies.
- ☐ Chooses top-quality international components to deliver high-value products to customers.
- ☐ Upholds values of customer priority, proactivity, responsibility, and innovative breakthroughs.

MODEL	Shiner2410	Shiner2420	Shiner2430	Shiner2440	Shiner2460	Shiner4820
PV INPUT						
Max.Voltage of Open Circuit	60Vdc		100Vdc			
MPPT Voltage Range	(Battery voltage+2V)~45Vdc		(Battery voltage+2V)~72Vdc			
Max.PV Input Power	130W/12V 260W/24V	260W/12V 520W/24V	400W/12V 800W/24V	520W/12V 1040W/24V	800W/12V 1600W/24V	260W/12V 520W/24V 780W/36V 1040W/48V
BATTERY						
Battery Type	Lead-acid / Li-ion / User Defined					
Rated Battery Voltage	12/24Vdc					12/24/36/48Vdc
Battery Voltage Range	8~32Vdc					8~64Vdc
Rated Charging Current	10A	20A	30A	40A	60A	20A
MPPT Charging Mode	Buck					
LOAD						
Load Type	Resistive load 、Capacitive load、Inductive load					
Rated Load Voltage	Equal to battery voltage 12V/24/36/48V					
Rated Load Current	10A	20A				
Load Working Mode	Light control,Light control + Time control, manual control (default), Debugging mode, Normal open					
EFFICIENCY						
MPPT Tracking Efficiency	>99%					
Max. Charging Conversion Efficiency	85%~98%(Correspond load power10%~100%)					
COMMUNICATION						
TTL、RS485 (default)	TTL Baud rate 9600kps , RS485 RJ45 port					
CAN (optional)	RJ45 port, RV-C protocol					
Bluetooth (optional)	External module BT-2 with mobile app					
GENERAL						
Weight	0.35Kg	0.65Kg	1.2Kg	1.75Kg	2.4Kg	0.75Kg
Dimension	155*99*41.7mm	181*118*61.7mm	187*133*72mm	228*160*72mm	261*186*82mm	181*118*61.7mm
Protection Degree	IP32					
Operating Temperature Range	-35℃~65℃					
Cetification	RoHS/IEC62109/CE-RED					

It is equipped with equipment over-temperature protection, battery over-temperature protection, input over-power protection, PV input over-voltage, PV input reverse connection protection, and night-time anti-reverse charging protection.

