



Shiner series solar charge controller

Shiner2410/2420/2430/2440/2460/4820



For off-grid application

- Can be connected to both PV, battery and load
- Multiple load operating modes to meet diverse needs

User-Friendly

- Easy to install and simple to use
- Natural cooling, absolutely quiet

Safety

- Complete charge and discharge protection mechanism
- High quality components for stable operation

All-in-One

- Supports multiple battery types
- Highly integrated, helps you save space and wire

Efficient

- MPPT with up to 99.9% efficiency
- Support solar panel 2 in series/more in parallel

Intelligent

- Supports TTL RS485 and CAN (RV-C protocol)
- Supports Bluetooth with mobile APP

MODEL	Shiner2410	Shiner2420	Shiner2430	Shiner2440	Shiner2460	Shiner4820	CAN BE SET	
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	350g(0.77lb)	650g(1.43lb)	1.2Kg(2.64lb)	1750g(3.85lb)	2.4Kg(5.3lb)	750g		
Dimension	155*99*41.7mm (6.1*3.8*1.6in)	181*118*61.7mm (7.1*4.6*2.4in)	187*133*72mm (7.3*5.2*2.8in)	228*160*72mm (8.9*6.2*2.8in)	261*186*82mm (10.2*7.3*3.2in)	181*118*61.7mm (7.1*4.6*2.4in)		
Protection Degree	IP32							
Operating Temperature Range	-35°C~65°C (-31°F~149°F)							

