



## Shiner series

### solar charge controller

Shiner2410/2420/2430/2440/2460



#### 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	CAN BE SET
<b>PV INPUT</b>						
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	✓
<b>BATTERY</b>						
Battery Type	Lead-acid / Li-ion / User Defined					✓
Rated Battery Voltage	12/24Vdc					
Battery Voltage Range	8~32Vdc					✓
Rated Charging Current	10A	20A	30A	40A	60A	✓
MPPT Charging Mode	Buck					
<b>LOAD</b>						
Load Type	Resistive load , Capacitive load , Inductive load					
Rated Load Voltage	Equal to battery voltage 12V/24V					
Rated Load Current	10A	20A				
Load Working Mode	Light control,Light control + Time control , manual control (default), Debugging mode, Normal open					✓
<b>EFFICIENCY</b>						
MPPT Tracking Efficiency	>99%					
Max. Charging Conversion Efficiency	85%~98%(Correspond load power10%~100%)					
<b>COMMUNICATION</b>						
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					
<b>GENERAL</b>						
Weight	350g(0.77lb)	650g(1.43lb)	1200g(2.64lb)	1750g(3.85lb)	2.4Kg(5.3lb)	
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 (10.23*7.3*3.2in)	
Protection Degree	IP32					
Operating Temperature Range	-35°C-65°C (-31°F~149°F)					

