



Shiner series MPPT solar charge controller

Shiner2410/2420/2430/2440



/ 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 open circuit voltage up to 60V

/ Intelligent

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

MODEL	Shiner2410	Shiner2420	Shiner2430	Shiner2440	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 bat 260W/24V bat	260W/12V bat 520W/24V bat	400W/12V bat 800W/24V bat	520W/12V bat 1040W/24V bat	✓
BATTERY					
Battery Type	Lead-acid / Li-ion / User Defined				✓
Rated Battery Voltage	12/24Vdc				
Battery Voltage Range	9~60Vdc				✓
Rated Charging Current	10A	20A			✓
MPPT Charging Mode	Buck				✓
LOAD					
Load Type	Resistive load , Capacitive load、 Inductive load				
Rated Load Voltage	Equal to battery voltage 12V/24V				
Rated Load Current	10A	20A	30A	40A	
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 with mobile app				
GENERAL					
Weight	350g(0.77lb)	650g(1.43lb)	1200g(2.64lb)	1750g(3.85lb)	
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)	
Protection Degree	IP32				
Operating Temperature Range	-35°C~65°C (-31°F~149°F)				

