



4KW Solar Charge Controller

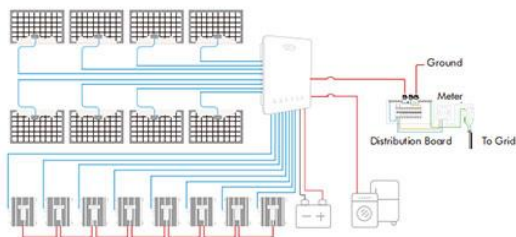
To Protect the climate, it is crucial to reduce greenhouse gas emissions. Solar energy storage system and electric vehicles play an important role in reducing those emissions. Wocor Poweray provides a full solution that combiner the rooftop solar, energy storage system, and EV charging station. Optimize the load on the grid, reduce the cost of grid upgrades, build smart and renewable home energy management systems. The WoCor

Poweray 4KW Solar Charge Controller's Sub-1G wireless solution enables the stable communication when installed for commercial.

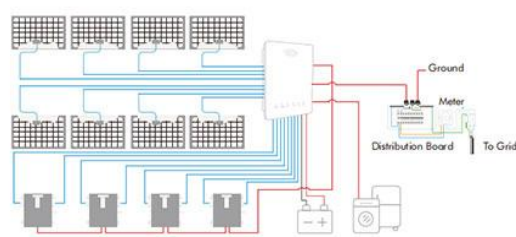
Product Description

WoCor Poweray 4KW Solar Charge Controller has an efficient charging system and can handle high power input reach to 4KW, this controller equipped with industrial-grade (MPPT+AC) to control the charge and discharge process. WoCor Poweray 4KW Solar Charge Controller has perfect and liable battery charge and discharge period management. WoCor Poweray 4KW Solar Charge Controller works with our Tiger series microinverter will magically create a residential solar storage system that will support battery mode operation without mains power.

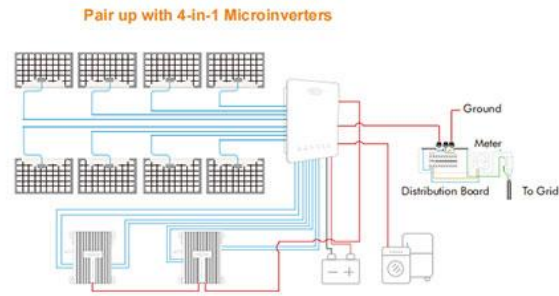
Further more the adaptive function of the wide voltage battery enables customers to choose vary type batteries: wide voltage (12V/24V/36V/48V), different type batteries (Lead-acid batteries, lithium batteries or others). The shell of WoCor Poweray 4KW Solar Charge Controller is designed with high-performance aluminum alloy to die-casting sealing, so that it can keep running in harsh natural environment.



Pair up with 1-in-1 Microinverters



Pair up with 2-in-1 Microinverters



Product information	
Model	Tribune-EMS 4KW
MPPT Solar Charger	
Number of MPPT Trackers	4
PV Operating Voltage	20-60V
MPPT Operating Voltage Range	25-60V
Max. PV open circuit voltage	60Vdc
Max. PV array Power	4 x 1 tracker 1200W(2pcs 600W in parallel)
Max. Charging Current	90A
Max. DC load Current	4 x 30A@45V
Self Consumption	2W
MPPT Tracking Efficiency	99.9%
Conversion Efficiency	98%
Protection	overload, reverse connection, short circuit, high voltage ,high temperature protection
AC Charger (Optional)	
Input Voltage	110V -260V
Charge Current	10A@48V
Charge Current Adjustable	0-10A
Customized Charge Time	Set up the charge time by APP
Battery	
Battery Type	Sealed , AGM, Gel, Flooded, Lithium , Lithium carbonate, User-defined
Battery Voltage	Standard 48V or Automatic detection
Battery Voltage Range	10V-60V
Customized Discharge Time	Set up the discharge time by APP
Communication	

Communication Port	RS485
Energy Management	
Input Power form Micro inverter	4KW
Qty of Microinverter	2pcs Tiger-2KW; 4pcs Tiger-1.2KW; 8pcs Tiger-600W
AC Loading (Back-up)	4KW 230Vac@50Hz
Loading Peak Power (Back-up)	12KW (with 2pcs Tiger-2KW)
AC Output (on-grid)	4KW 230Vac@50Hz
Output Power Factor (Adjustable)	>0.99 Default, 0.8 Leading...0.8 Lagging...
UPS Switch Time	<10mS
Level of Harmonics Distortion	THD <3%
Protection	overload, short circuit, battery low voltage, battery reverse polarity, Island protection
Mechanical	
Net weight	5KG
Gross weight	6KG
Dimensions	230*270*90 MM
Packing dimension	350*300*105 MM
Cooling	Natural Convection-No Fans
Enclosure	IP65
Environment	
Ambient Temperature	-25~65°C (Derating from 45°C)
Storage Temperature	-40°C~+85°C
Humidity	100% non-condensing
Warranty	5 Years
Certification	
Safety	CE and UL

Product Feature of the WoCor Poweray Tribune-EMS 4KW Controller

- *4 Independently trackers, maximize each solar panel output
- *Automatic battery voltage detection in 12V/24V/46V/48V
- *Suitable for different battery types MPPT tracking efficiency >99.9%, Peak conversion efficiency >99%
- *With UPS function, keep your home devices running properly 6 LED lights clearly show all work status
- *Reverse polarity protection of solar panel and battery
- *Overcharge and overload protection
- *Flexibly monitor your solar harvest via APP