EM Series [PV 120-500Vdc]

3.5 / 5.5KW 220V / 230Vac Output

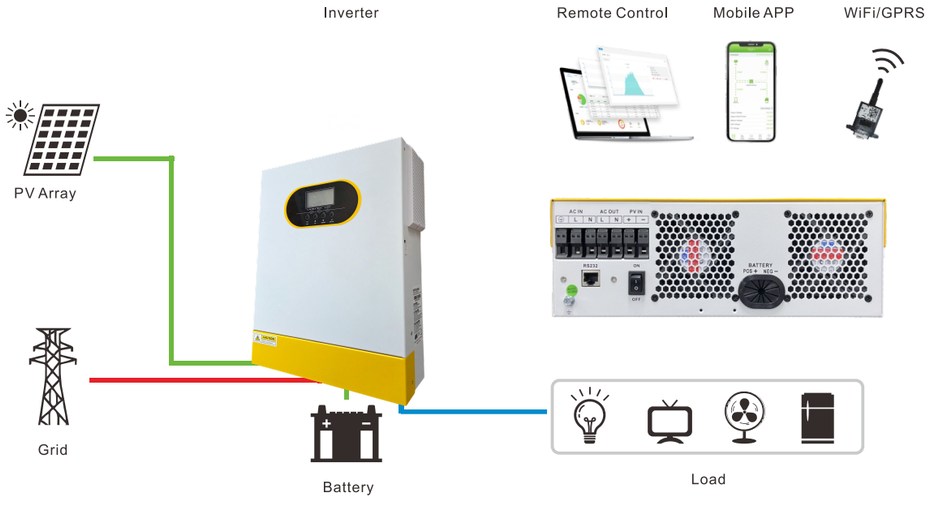


Features

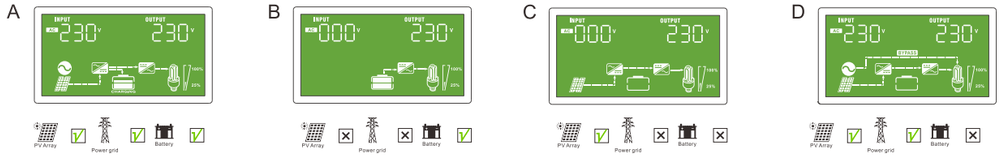
-Pure sine wave
-Power factor 1.0
-PV input 500Vdc Max
-Built-in MPPT 100A
-Capable to work without battery
-Detachable dust cover for harsh environment
-WiFi remote monitoring optional
-Support multiple output priority: UTL, SOL, SBU, SUB
-EQ function to optimize battery performance and extend lifecycle

This is a multi-functional inverter/charger, combining functions of inverter,solar charger and battery charger to offer uninterruptible power support in portable size. Its comprehensive LCD display offers user -configurable and easy-accessible button operation such as battery charging current, AC/solar charger priority ,and acceptable input voltage based on different applications.

Application Diagram



Working Mode



Technical Data

MODEL	EM3500-24	EM5500-48
Capacity	3.5KVA/3.5KW	5.5KVA/5.5KW
INPUT		
Nominal Voltage	230VAC	
Acceptable Voltage Range	170-280VAC(For personal Computer);90-280vac(For Home Appliances)	
Frequency	50/60 Hz(Auto sensing)	
OUTPUT		
Nominal Voltage	220/230VAC±5%	
Surge Power	7000VA	11000VA
Frequency	50/60Hz	
Waveform	Pure Sine wave	
Transfer Time	10ms(For personal Computer);20ms(For Home Appliances)	
Peak Efficiency(PV to INV)	96%	
Peak Efficiency(Battery to INV)	93%	
Overload Protection	5s@>=150% load; 10s@110%~150% load	
Crest Factor	3:1	
Admissible Power Factor	0.6~1 (inductive or capacitive)	
BATTERY		
Battery Voltage	24VDC	48VDC
Floating Charge Voltage	27VDC	54VDC
OverCharge Protection	33VDC	63VDC
Charging Method	CC/CV	
SOLAR CHARGER & AC CHARGER		
Solar Charger Type	MPPT	
Max.PV Array Power	4000W	5500W
Max.PV Array Open Circuit Voltage	500VDC	
PV Array MPPT Voltage Range	120VDC~450VDC	
Max.Solar Input Current	15A	18A
Max.Solar Charge Current	100A	100A
Max.AC Charge Current	60A	60A
Max.Charge Current	100A	100A
PHYSICAL		
Dimensions,D x W x H(mm)	438x295x105	
Package Dimensions,D x W x H(mm)	560x375x185	
Net Weight(Kg)	7	9
Communication Interface	RS232	
ENVIRONMENT		
Operating Temperature Range	(-10℃ to 50℃)	
Storage Temperature	(-15℃ ~ 50℃)	
Humidity	5% to 95%Relative Humidity(Non-condensing)	

Product specifications are subject to change without further notice.