

M Series [PV 120-500Vdc] 3.5 / 5.5KW 220V / 230Vac Output

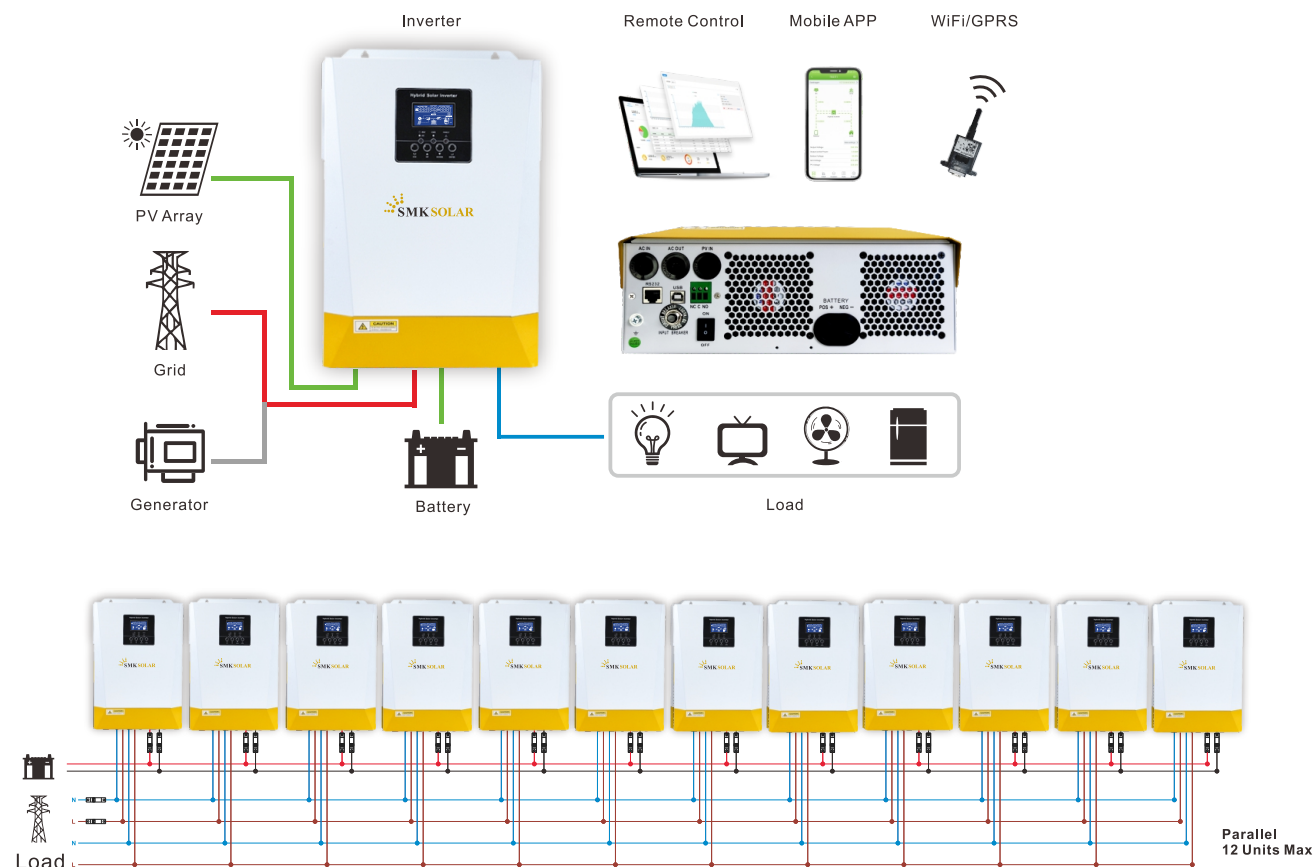


Features

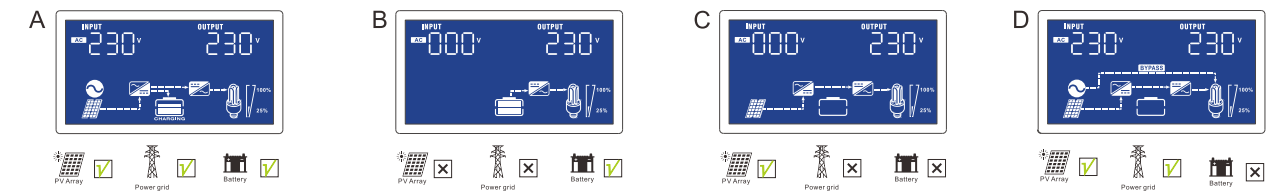
- Pure sine wave
- Power factor 1.0
- PV input 500Vdc Max
- Built-in MPPT 100A
- Capable to work without battery
- Detachable dust cover for harsh environment
- WiFi remote monitoring optional
- Compatible work with lifepo4 battery
- Support multiple output priority: UTL, SOL, SBU, SUB
- Parallel operation up to 12 units in 1phase or 3phase
- 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	M3500-24	M5500-48	M5500-48PL
Capacity	3.5KVA/3.5KW	5.5KVA/5.5KW	5.5KVA/5.5KW
Parallel Capability	NO	NO	YES, 12 Units
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	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	48VDC
Floating Charge Voltage	27VDC	54VDC	54VDC
OverCharge Protection	33VDC	63VDC	63VDC
Charging Method	CC / CV		
Solar Charger & AC Charger			
Solar Charger Type	MPPT		
Max.PV Array Power	4000W	5500W	5500W
Max.PV Array Open Circuit Voltage	500VDC		
PV Array MPPT Voltage Range	120VDC~450VDC		
Max.Solar Input Current	15A	18A	18A
Max.Solar Charge Current	100A	100A	100A
Max.AC Charge Current	60A	60A	60A
Max.Charge Current	100A	100A	100A
PHYSICAL			
Dimensions,D x W x H(mm)	448x295x120		
Package Dimensions,D x W x H(mm)	560x375x190		
Net Weight(Kg)	9	10	10
Communication Interface	USB / RS232 / Dry-contact	USB / RS232 / Dry-contact	RS485/ RS232 / Dry-contact
ENVIRONMENT			
Operating Temperature Range	(-10°C to 50°C)		
Storage Temperature	(-15°C ~ 50°C)		
Humidity	5% to 95% Relative Humidity (Non-condensing)		

Product specifications are subject to change without further notice.