

**M Series [PV 60-500Vdc]**  
**5.5KW 220V / 230Vac Output**

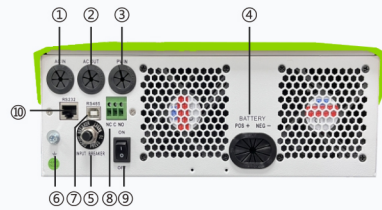


**Features**

- Compatible work with lifepo4 battery via RS485
- Parallel operation up to 12 units in 1phase or 3phase
- 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
- EQ function to optimize battery performance and extend lifecycle

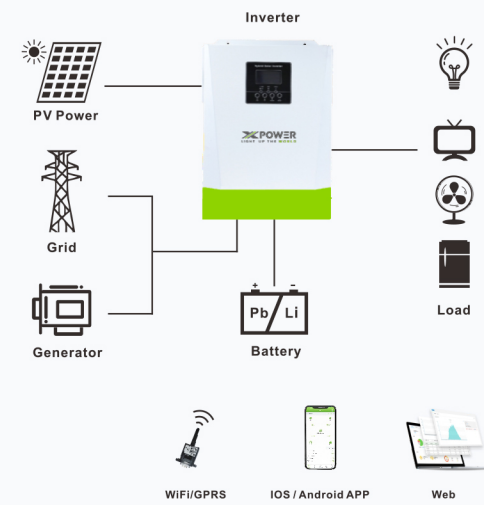


**Bottom view**



1. AC input
2. AC output
3. PV input
4. Battery input
5. Circuit breaker
6. Grounding
7. RS485 communication port
8. Dry contact
9. Power on/off switch
10. RS232 communication port

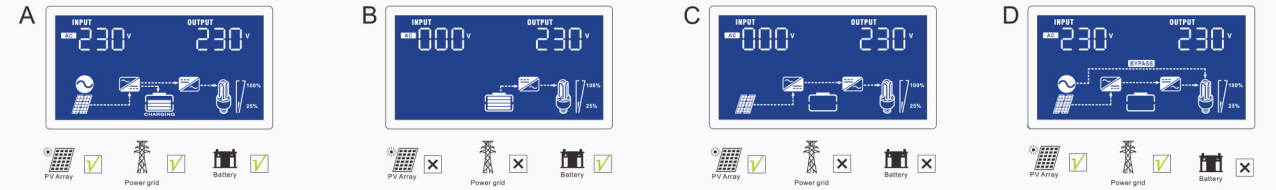
**System Diagram**



**Parallel 12 Units Max**



**Working Mode**



**Technical Data**

MODEL	XM5500-48PL
Capacity	5.5KVA/5.5KW
Parallel Capability	YES,12 Units
Lithium battery activation	NO
Lithium battery Communication	YES(RS485)
<b>INPUT</b>	
Nominal Voltage	230VAC
Acceptable Voltage Range	170-280VAC(For personal Computer);90-280vac(For Home Appliances)
Frequency	50/60 Hz(Auto sensing)
<b>OUTPUT</b>	
Nominal Voltage	220/230VAC±5%
Surge Power	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@>=140% load; 10s@110%~140% load
Crest Factor	3:1
Admissible Power Factor	0.6~1 (inductive or capacitive)
<b>BATTERY</b>	
Battery Voltage	48VDC
Floating Charge Voltage	54VDC
OverCharge Protection	63VDC
Charging Method	CC / CV
<b>SOLAR CHARGER &amp; AC CHARGER</b>	
Solar Charger Type	MPPT
Max.PV Array Power	5500W
Max.PV Array Open Circuit Voltage	500VDC
PV Array MPPT Voltage Range	60VDC~500VDC
Max.Solar Input Current	18A
Max.Solar Charge Current	100A
Max.AC Charge Current	60A
Max.Charge Current	100A
<b>PHYSICAL</b>	
Dimensions,D x W x H(mm)	448x295x120
Package Dimensions,D x W x H(mm)	560x375x190
Net Weight(Kg)	10
Communication Interface	RS485/ RS232 / Dry-contact
<b>ENVIRONMENT</b>	
Operating Temperature Range	(-10°C to 55°C)
Storage Temperature	(-15°C ~ 60°C)
Humidity	5% to 95% Relative Humidity ( Non-condensing )

Product specifications are subject to change without further notice.