

LVM Series [PV 60-500Vdc]
3 / 5KW 110V / 120Vac Output

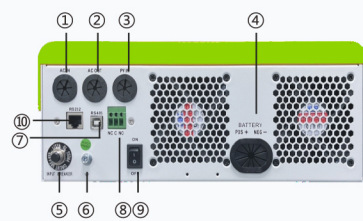


Features

- Compatible work with lifepo4 battery via RS485
- Parallel operation with up to 12 units in 1phase/3phase / split phase
- Pure sine wave
- Power factor 1.0
- PV input 500Vdc Max
- Built-in MPPT 80A
- 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 (Optional)
9. Power on/off switch
10. RS232 communication port



System Diagram

Single Phase L-N = 120V



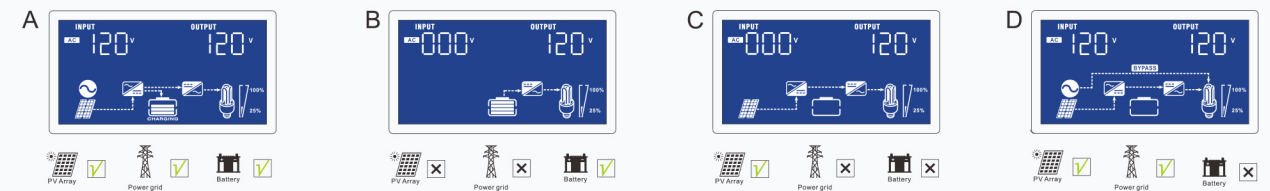
3-Phase = 208V



Split Phase L1-L2 = 240V



Working Mode



Technical Data

MODEL	XLVM3000-48PL	XLVM5000-48PL
Capacity	3KVA/3KW	5KVA/5KW
Parallel Capability	YES, 12 Units	
Split phase operation	YES, need at least 2 units parallel	
Lithium Battery activation	NO	YES(By PV or Utility)
Lithium Battery communication	YES(RS485)	YES(RS485)
INPUT		
Nominal Voltage	110/120VAC	
Acceptable Voltage Range	95-140VAC(For personal Computer);65-140VAC(For Home Appliances)	
Frequency	50/60 Hz(Auto sensing)	
OUTPUT		
Nominal Voltage	110/120VAC±5%	
Surge Power	6000VA	10000VA
Frequency	50/60Hz	
Waveform	Pure Sine wave	
Transfer Time	10ms(For personal Computer);20ms(For Home Appliances)	
Peak Efficiency(PV to INV)	97%	
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)	
BATTERY		
Battery Voltage	48VDC	
Floating Charge Voltage	54VDC	
OverCharge Protection	63VDC	
Charging Method	CC/CV	
Solar Charger & AC Charger		
Max.PV Array Power	5000W	6500W
Solar Charger Type	MPPT	
Max.PV Array Open Circuit Voltage	500VDC	
PV Array MPPT Voltage Range	60VDC~500VDC	
Max.Solar Input Current	18A	27A
Max.Solar Charge Current	80A	100A
Max.AC Charge Current	60A	60A
Max.Charge Current	80A	100A
PHYSICAL		
Dimensions,D x W x H(mm)	448x315x122	450x300x130
Package Dimensions,D x W x H(mm)	540x390x217	540x390x217
Net Weight(Kg)	10	12
Communication Interface	RS485/RS232/Dry-contact	
ENVIRONMENT		
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.