

LOW FREQUENCY SPLIT PHASE SOLAR INVERTER
PV3900 TLV Series

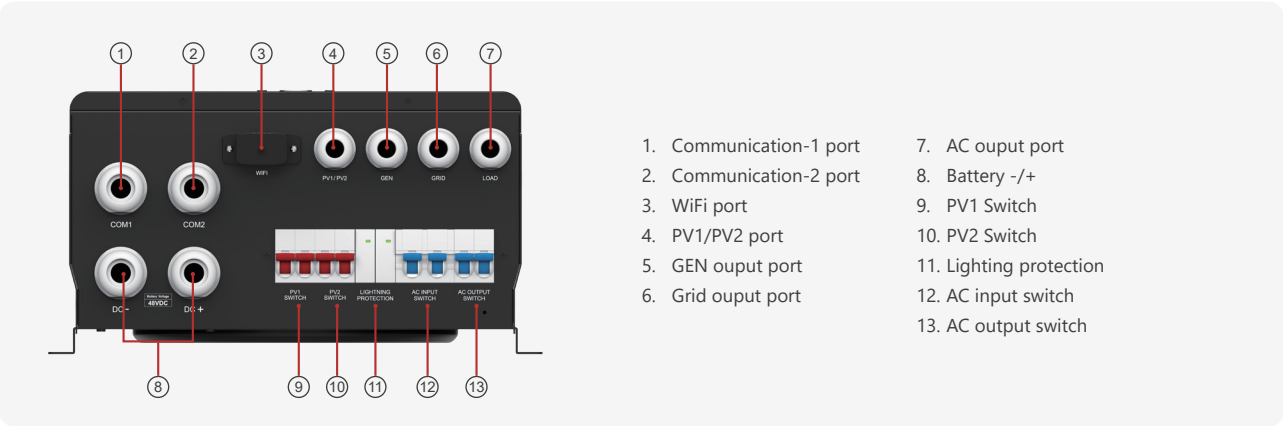
8~12KW | PV 250V | MPPT 200A

PV3900 TLV series is a multi-function inverter ,combining functions of inverter and MPPT solar charge controller, solar charger and battery charger to offer uninterruptible power support. The comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, AC/solar charger priority, and selectable input voltage based on different applications.

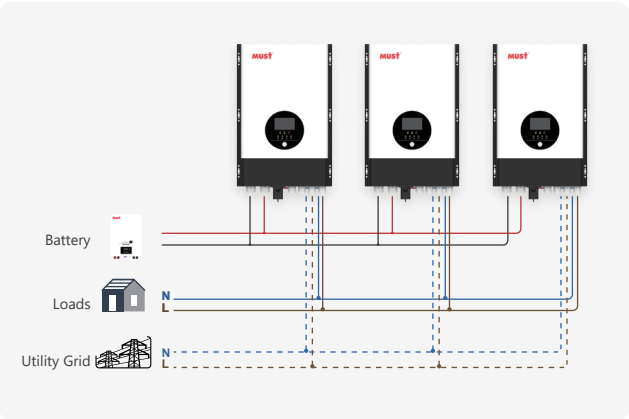


- Smart LCD setting(Working modes, Charge Current, Charge voltage, etc.)
- Built-in MPPT solar charge controller 200A
- MPPT efficiency max 98%
- Powerful charge rate up to 200A
- Inside BMS function
- DC start &Automatic Self-Diagnostic Function
- WIFI monitoring function (optional)
- Compatible to generator
- Parallel operation with up to 3 units

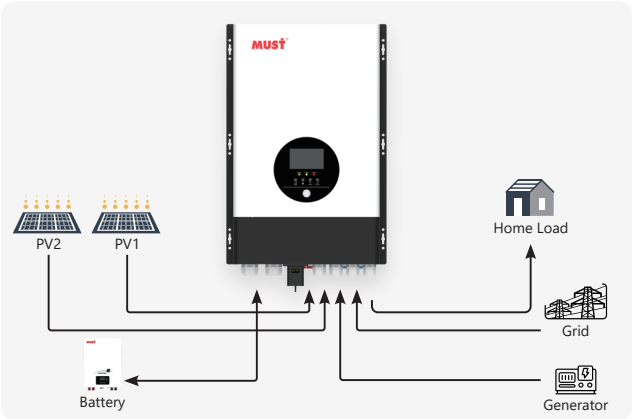
Back panel description



Parallel operation



Solar system connection



MODEL	PV39-8048 TLV		PV39-10048 TLV	PV39-12048 TLV
Nominal Battery System Voltage	48VDC			
Stand-alone mode	Yes			
Parallel operation	3 units			
INVERTER OUTPUT				
Rated power	8KW	10KW	12KW	
Surge rating	24000VA	30000VA	36000VA	
Capable of starting electric motor	4HP	5HP	6HP	
Waveform	Pure sine wave / same as input (bypass mode)			
Nominal output voltage RMS	100V/110V/120V/200V/220V/240V			
Inverter efficiency(peak)	>90%			
Line mode efficiency	>95%			
Power factor	1.0			
Typical transfer time	10ms(max)			
AC INPUT				
Voltage	220V/230V/240V			
Selectable voltage range	90-280 VAC (APL)			
Frequency range	50Hz / 60Hz			
BATTERY				
Low battery voltage cutoff	40-48VDC for 48VDC mode			
Low battery voltage recover	42-50VDC for 48VDC mode			
High battery voltage cutoff	60VDC for 48VDC mode			
High battery voltage recover	57VDC for 48VDC mode			
No-load loss	<50W			
AC CHARGER				
Output voltage	Depends on battery type (Supports lead-acid, gel, and lithium batteries)			
Charger AC input breaker rating	100A			
Overcharge protection S.D.	62.8VDC for 48VDC mode			
Maximum charge current	10-140A (setting) battery terminal			
BTS				
Continuous output power	Yes Variances in charging voltage & S.D. voltage base on the battery temperature			
BYPASS & PROTECTION				
Input voltage waveform	Sine wave (grid or generator)			
Nominal input frequency	50Hz or 60Hz			
Overload protection (SMPS Load)	Software + Circuit breaker			
Output short circuit protection	Software + Circuit breaker			
Bypass breaker rating	63A			
Max bypass current	80A			
SOLAR CHARGER				
Maximum PV charge current	200A			
DC voltage	48V			
Maximim PV array power	10000W	10000W	10000W	
MPPT range @ operating voltage(VDC)	64~235VDC			
Maximum PV array open circuit voltage	250VDC			
Maximum efficiency	>98%			
Standby power consumption	<2W			
MECHANICAL SPECIFICATIONS				
Mounting	Wall mount			
Packing	Wooden box			
Machine Dimension (W*H*D)(mm)	439*660.5*233.2			
Package Dimension (W*H*D)(mm)	782*314.5*520.5			
N.W(kg)	55	62	69	
G.W(kg)	73	80	87	
OTHER				
Operation temperature range	0°C to 50°C			
Storage temperature	15°C to 60°C			
Audible noise	60dB MAX			
Communication	WiFi			
Display	LED+LCD			
Standard Warranty	2 year			
CERTIFICATION & STANDARDS				
CE-LVD (IEC62109-1:2010, EN IEC62109-2:2011); UL1741				

*The technical specifications of this document are subject to change without any notice