MUST
Solar Power System



HIGH FREQUENCY SOLAR INVERTER

PV1900M EXP Series

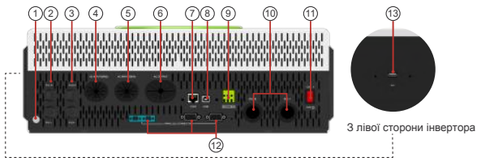
6.2~12KW | PV500V | 120A~150A | Dual output

PV1900M EXP is a multi-function inverter/charger, combining functions of inverter, MPPT solar charger and battery charger to offer uninterruptible power support in portable size. PV1900M EXP Series can run without battery.
The Maximum PV input voltage can reach 500V and MPPT voltage range is 90~450Vdc, built-in two MPPTs solar charge controller, which can help customers make full use of solar energy.

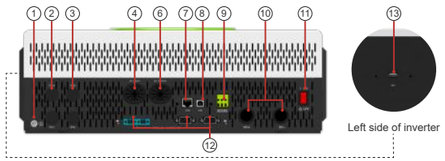
- Dual output for smart load management
- Smart color LCD setting (Working modes, Charge Current, Charge Voltage, etc).
- Built-in Two MPPTs solar charge controller
- Wide MPPT voltage range is 90~450V, the maximum PV input voltage can reach 500V (450V for parallel)
- Can provide the power to the load without battery
- Combining solar system, AC utility, and battery power source to supply continuous power
- Overload, short circuit and Deep discharge protection
- With BMS lithium battery communication function
- With AC/PV lithium battery activation function
- Support USB, RS485 monitoring function
- Parallel operation with up to 3 units (for 48V mode)
- WIFI remote monitoring (optional)

Підключення до інвертора

8~12KW

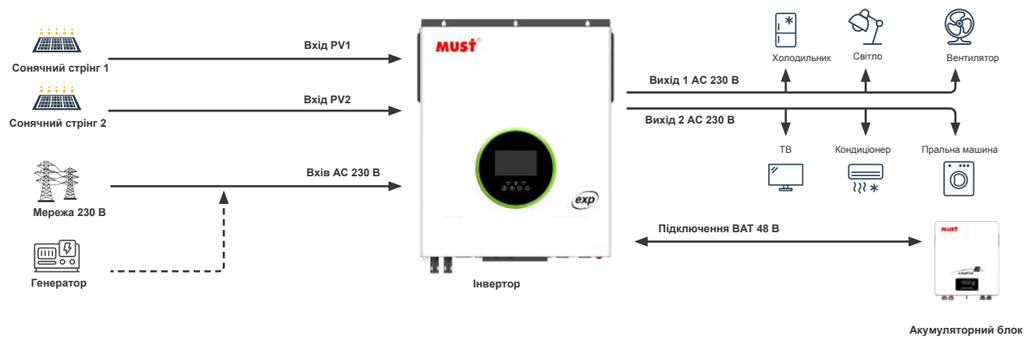


6.2KW



1. Заземлення
2. Вхід PV1
3. Вхід PV2
4. Вхід AC 1
5. Вхід AC 2
6. Вихід AC
7. Порти RS-485/CAN
8. Порт USB
9. Сухі контакти
10. Підключення АКБ
11. Кнопка живлення (On/Off)
12. Порт паралельного підключення (для відповідної моделі)
13. Порт Wifi

Solar system connection



MODEL	PV19-6248 EXP	PV19-8048 EXP	PV19-10048 EXP	PV19-12048 EXP
Default Battery System Voltage	48VDC			
INVERTER OUTPUT				
Rated Power	6200VA/6200W	8000VA/8000W	10000VA/10000W	12000VA/12000W
Surge Power	12400W	16000W	20000W	24000W
Waveform	Pure sine wave			
AC Voltage Regulation (Batt.Mode)	230VAC±5%(Setting)			
Inverter Efficiency(Peak)	92%			
Transfer Time	10ms(UPS / VDE4105) / 20ms(APL)			
AC INPUT				
Voltage	230VAC			
Selectable Voltage Range	170~280VAC(UPS) / 90~280VAC(APL) / 184~253VAC(VDE)			
Frequency Range	50Hz / 60Hz (Auto sensing)			
BATTERY				
Normal voltage	48VDC			
Floating Charge Voltage	54.8VDC			
Overcharge Protection	60VDC			
SOLAR CHARGER & AC CHARGER				
Maximum PV Array Open Circuit Voltage	500VDC (450V for parallel)			
Charging Algorithm	3-Step (Flooded Battery, AGM / GEL / LEAD Battery), 4-Step (Li)			
Maximum PV Array Power	4000W*2	4000W*2	5000W*2	6000W*2
Maximum PV Input Current	18A*2	18A*2	27A*2(40A max)	27A*2(40A max)
PV Array MPPT Voltage Range	90~450VDC (90~430VDC for parallel)			
Maximum Solar Charge Current	120A	120A	150A	150A
Maximum AC Charge Current	100A	120A	150A	150A
Maximum Charge Current	120A	120A	150A	150A
MECHANICAL SPECIFICATIONS				
Machine Dimension (W*H*D)	425*473*145mm	425*527*145mm		
Package Dimension (W*H*D)	/	/	/	/
N.W (kg)	/	/	/	/
G.W (kg)	/	/	/	/
OTHER				
Humidity	5% to 95% Relativ Humidity (Non-condensing)			
Operating Temperature	0°C~50°C			
Storage Temperature	-15°C -60°C			
CERTIFICATION & STANDARDS				

CE-EMC+LVD (EN6100-6-3:2007, EN6100-6-1:2017+EN IEC62109-1:2010, EN IEC62109-2:2011)
EN IEC62368-1:2020+A11:2020
CE-LVD (IEC62109-1:2010, EN IEC62109-2:2011)
EN IEC62368-1:2018, EN IEC62109-1:2010, EN IEC62109-2:2011

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