

HIGH FREQUENCY POWER INVERTER/CHARGER EP1800 Series

1~5KW | 12V/24V/48V | 230V



This is a multi-function inverter/charger, combining functions of inverter, battery charger to offer uninterruptible power support with portable size. Its comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, AC charger priority, and acceptable input voltage based on different applications.



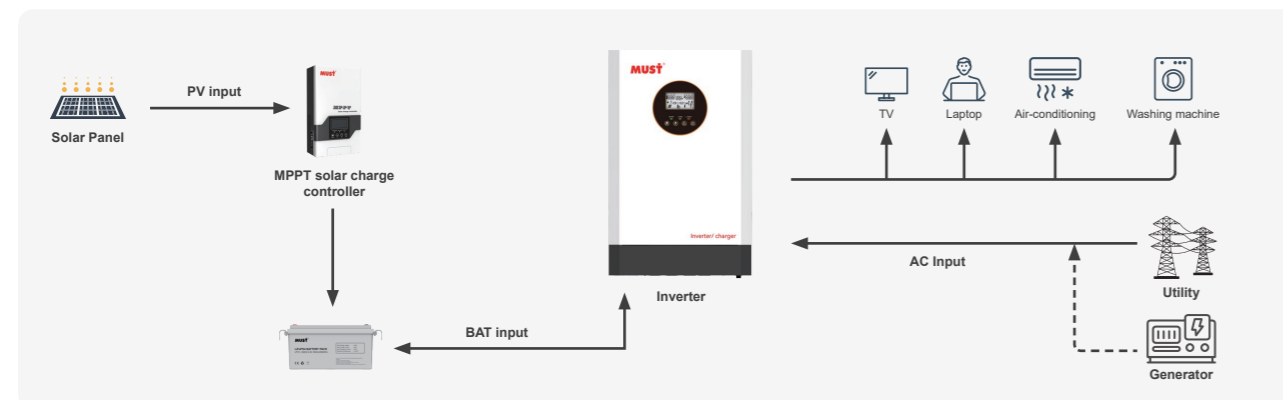
- Pure sine wave inverter
- Configurable input voltage range for home appliances and personal computers via LCD setting
- Configurable battery charging current based on applications via LCD setting
- Configurable AC Charger via LCD setting
- Compatible to mains voltage or generator power
- Auto restart while AC is recovering
- Overload/ Over temperature/ short circuit protection
- Smart battery charger design for optimized battery performance
- Cold start function
- With BMS lithium battery communication function (CAN port)

Back panel description



- | | | |
|-----------------------------|------------------------|--|
| 1. Circuit breaker | 5. USB port | 9. Parallel communication port (only for parallel model) |
| 2. AC input | 6. Dry contact | 10. Parallel switch |
| 3. AC output | 7. Power on/off switch | 11. WiFi port (optional) |
| 4. RS485 communication port | 8. Battery input | |

Solar system connection



MODEL	EP18-1012	EP18-2024	EP18-3024	EP18-4048	EP18-5048
Nominal Battery System Voltage	12VDC	24VDC	24VDC	48VDC	48VDC
INVERTER OUTPUT					
Rated Power	1000W	2000W	3000W	4000W	5000W
Surge Power	2000W	4000W	6000W	8000W	10000W
Waveform	Pure sine wave				
Output Voltage Regulation	230Vac±5%				
Output Frequency	60Hz or 50Hz				
Inverter Efficiency (Peak)	90%				
Transfer Time	10ms typical (UPS,VDE); 20ms typical (APL)				
AC INPUT					
Nominal Input Voltage	230VAC				
Selectable Voltage Range	170~280VAC(UPS), 90~280VAC(APL), 184~253VAX(VDE)				
Frequency Range	50Hz/60Hz (Auto sensing)				
BATTERY					
Nominal voltage	12VDC	24VDC	24VDC	48VDC	48VDC
Floating Charge Voltage	13.7VDC	27.4VDC	27.4VDC	54.8VDC	54.8VDC
Overcharge Protection	15VDC	30VDC	30VDC	60VDC	60VDC
CHARGER					
Charging Current @ Nominal Input Voltage	10/20A	20/30A	20/30A	1~60A	1~60A
Charging Algorithm	3-Step(Flooded Battery, AGM/Gel/LEAD Battery),4-Step(LI)				
Max Charging Current	20A	30A	30A	60A	60A
Default Charging Current	10A	20A	20A	30A	30A
PROTECTION					
Nominal Input Frequency	50Hz / 60Hz (Auto detection)				
Output Short Circuit Protection	Line mode: Circuit Breaker; Battery mode: Electronic Circuits				
MECHANICAL SPECIFICATIONS					
Machine Dimension (W*H*D)(mm)	240*316*95	272*355*100	272*355*100	297.5*468*125	297.5*468*125
Package Dimension (W*H*D)(mm)	/				
N.W(kg)	/				
G.W(kg)	/				
OTHER					
Operation Temperature Range	-10°C ~ 50°C				
Storage temperature	-15°C~ 60°C				
Audible Noise	60dB MAX				
Display	LED+LCD				
Standard Warranty	2 year				
CERTIFICATION & STANDARDS					
CE-EMC+LVD (EN6100-6-4, EN6100-6-2+EN IEC62109-1)					

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