HIGH FREQUENCY SOLAR INVERTER

ECO Series

2~12KW | Dual output

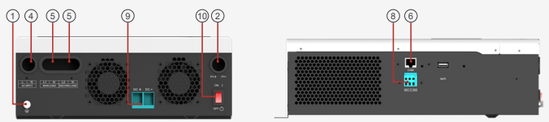
ECO Series is a multi-function inverter/charger, combining functions of inverter, MPPT solar charger and battery charger to offer uninterruptible power support in portable size. ECO Series can run without battery.
The Maximum PV input voltage can reach 400V/450V/500V, which can help customers make full use of solar energy.



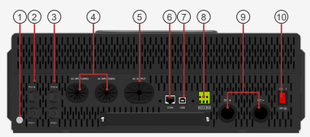
- Provide OEM Services: Appearance and Color
- Complete Solar System for Sale (Optional)
- Smart LCD setting (Working modes, Charge Current, Charge Voltage, etc).
- Built-in MPPT solar charge controller
- Wide PV input voltage range
- Can provide the power to the load without battery
- Combining solar system, AC utility, and battery power source to supply continuous power
- Overload, short circuit and Deep discharge protection
- Cold start function
- Support RS485,CAN monitoring function
- Dual outputs for smart load management
- Can communicate with lithium batteries (CAN port)

Back panel description

2KW

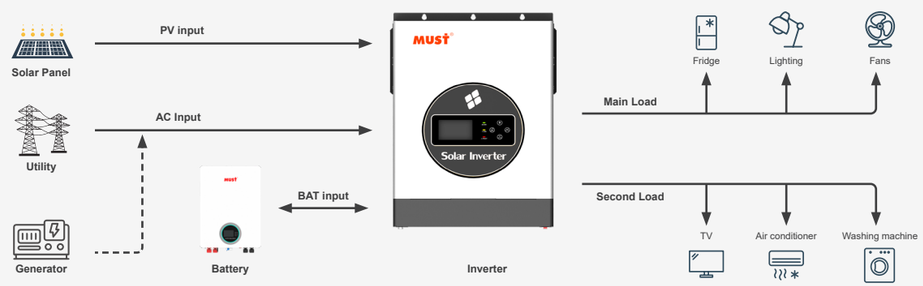


8~12KW



1. Ground
2. PV1
3. PV2
4. AC input (GRID/GEN optional)
5. AC output
6. RS-485/CAN Communication port
7. USB port
8. Dry Contact
9. Battery Input
10. Power On/Off Switch

Solar system connection



MODEL	ECO-2012	ECO-3624	ECO-4024	ECO-6048	ECO-6248	ECO-8048	ECO-10048	ECO-12048
Nominal Battery System Voltage	12VDC	24VDC	24VDC	48VDC	48VDC	48VDC	48VDC	48VDC
INVERTER OUTPUT								
Rated Power (Main+Second Load)	2000VA/ 2000W	3600VA/ 3600W	4000VA/ 4000W	6000VA/ 6000W	6200VA/ 6200W	8000VA/ 8000W	10000VA/ 10000W	12000VA/ 12000W
Battery Mode (Main+Second Load)	2000VA/ 1600W	3000VA/ 3000W	3500VA/ 3500W	5500VA/ 5500W	6200VA/ 6200W	8000VA/ 8000W	10000VA/ 10000W (Battery current limited)	12000VA/ 12000W (Battery current limited)
Surge Power	3200W	6000W	7000W	11000W	12400W	16000W	20000W	24000W
Waveform	Pure sine wave							
AC Voltage Regulation (Batt.Mode)	230VAC±5%(Setting)							
Inverter Efficiency(Peak)	90~93%							
Transfer Time	10ms (UPS / VDE4105) / 20ms (APL)							
AC INPUT								
Voltage	230VAC±5%							
Selectable Voltage Range	170~280VAC(UPS) / 90~280VAC(APL) / 184~253VAC(VED4105)							
Frequency Range	50Hz / 60Hz(Auto sensing)							
BATTERY								
Normal voltage	12VDC	24VDC	24VDC	48VDC	48VDC	48VDC	48VDC	48VDC
Floating Charge Voltage	13.7VDC	27.4VDC	27.4VDC	54.8VDC	54.8VDC	54.8VDC	54.8VDC	54.8VDC
Overcharge Protection	15VDC	30VDC	30VDC	60VDC	60VDC	60VDC	60VDC	60VDC
SOLAR CHARGER & AC CHARGER								
Maximum PV Array Open Circuit Voltage	400VDC	400VDC	450VDC	450VDC	500VDC	500VDC	500VDC	500VDC
Maximum PV Input Current	16A	18A	18A	28A	28A	18A*2	27A*2 (40A max)	27A*2 (40A max)
Charging Algorithm	3-Step (Flooded Battery, AGM / GEL / LEAD Battery), 4-Step (Li)							
Maximum PV Array Power	2000W	4000W	4000W	6000W	6200W	4000W*2	5000W*2	6000W*2
PV Array MPPT Voltage Range (Typ.)	30~320VDC		60~360VDC		120~450VDC	90~450VDC		
Maximum Solar Charge Current	80A	100A	100A	100A	120A	120A	150A	150A
Maximum AC Charge Current	80A	60A	60A	100A	100A	120A	150A	150A
Maximum Charge Current	80A	100A	100A	100A	120A	120A	150A	150A
MECHANICAL SPECIFICATIONS								
Machine Dimension (W*H*D)(mm)	290*367*111	318*454*122.5				425*527*145		
Package Dimension (W*H*D)(mm)	446*187*394	544.5*200*410				631.5**257*548		
N.W (kg)	6.0	7.8	8.0	9.0	10.0	17.9	18.0	18.0
G.W (kg)	7.2	9.3	9.5	10.2	11.6	20.5	20.6	20.6
OTHER								
Humidity	5% to 95% Relative humidity (Non-condensing)							
Operating Temperature	-10°C~50°C							
Storage Temperature	-15°C~60°C							
Communication Interface	USB/WIFI/RS-485/CAN							
Warranty	2 year							
Anti-dust Kit	none	yes	yes	yes	yes	yes	yes	yes
CERTIFICATION & STANDARDS								
CE								

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