MUST®
Solar Power System

## PORTABLE SOLAR POWER STATION

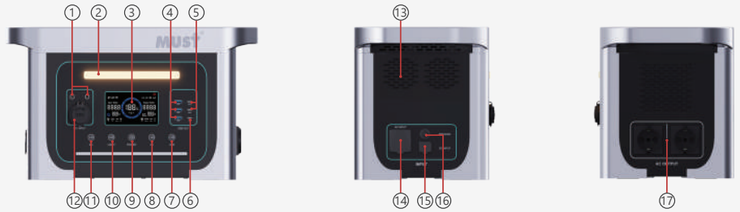
# ECO181 Series

1~1.5KW | 24V,48V | 110V,230V

MUST portable power stations are battery-powered generators that keep your gear charged up and ready wherever you are. From family camping to home backup, get yourself convenient power without the noise, fumes, and fuss of a traditional gas generator.

- Portable and easy carry
- Huge AC output
- Seamless 24/7 UPS, Plug and play home backup power
- Multiple Charging Ways Available: AC Charging, Solar Charging, Car Charging

### Back panel description




1. DC output port
2. LED light
3. LCD display screen
4. USB-A output ports
5. USB-C output ports (60W)
6. USB-C output ports (18W)
7. USB output switch
8. AC main switch
9. Main power switch
10. LED switch
11. DC output switch
12. Car charger DC output port
13. Air inlet & outlet
14. AC input port
15. Solar input port
16. Overload protection switch
17. AC output ports

### Application

| MODEL | EM1024S | EM1548S |
|---|---|---|
| Nominal Battery System Voltage | 24VDC | 48VDC |
| **INVERTER OUTPUT** | | |
| Rated power | 1000W | 1500W |
| Output voltage waveform | Pure Sine Wave | |
| Output voltage regulation | 110V±5%; 230V±5% | |
| Output frequency | 50Hz / 60Hz (±0.2Hz) | |
| Peak efficiency | 2000W (max) | 3000W (max) |
| Standby Consumption | 110V< 12W; 220V< 25W | |
| **PV INPUT** | | |
| Max solar power input | 600W | 1000W |
| PV max charging current | 25A | 20A |
| Max efficiency | 95.0% (max) | |
| PV array open circuit voltage | 60V (max) | 80V (max) |
| PV Array MPPT Voltage Range | 12~60V | 12~80V |
| **AC INPUT** | | |
| AC input voltage | 110VAC ±5%; 230VAC ±5% | |
| Acceptable input voltage range | 90-130VAC; 180-260VAC | |
| Nominal input frequency | 50Hz / 60Hz (Auto detection) | |
| Transfer time | ≤15ms | |
| **AC CHARGE** | | |
| Charging current @ Nominal input voltage | 600W@110V; 600W@220V | 1000W@110V; 1000W@220V |
| Charging Algorithm | Equalize charge - Trickle charge | |
| **OUTPUT** | | |
| AC output | 110Vac (Socket *3pcs); 230Vac (Socket *2pcs) | |
| Car charger output (cigarette lighter) | 120W | |
| DC output (DC5521) | 60W*2 | |
| USB-C(Type-C) | PD18W*1+PD60W*2 | |
| USB-A(USB) | QC18W*3 | |
| LED (white light) | 2W | |
| **LITHIUM BATTERY** | | |
| Energy | 1280Wh | 1433Wh |
| Nominal voltage | 25.6V | 51.2V |
| Battery capacity | 50Ah | 28Ah |
| Protection board | 100A | 80A |
| Standard charging & discharge current | Charging@25A; discharge@50A | Charging@20A; discharge@40A |
| Operation temperature | -10°C to 45°C | -10°C to 45°C |
| Storage temperature | -10°C to 55°C | -10°C to 55°C |
| **MECHANICAL SPECIFICATIONS** | | |
| Machine Dimension (W*H*D)(mm) | 440*233.2*263.3 | |
| Package Dimension (W*H*D)(mm) | 504*314.5*345 | |
| N.W(kg) | 17.9 | 19.5 |
| G.W(kg) | / | / |
| Standard Warranty | Inverter: 2 years ; Lithium battery: 5 years | |
| **CERTIFICATION & STANDARDS** | | |

CE-EMC+LVD (EN55032+A11, EN55035+A11, EN61000-3-2+A1, EN61000-3-3+A1, EN IEC62368-1+A11)
Rohs2.0(2011/65/EU)(2015/863/EU)

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