

SOLAR INVERTER

PV1500 LV Series

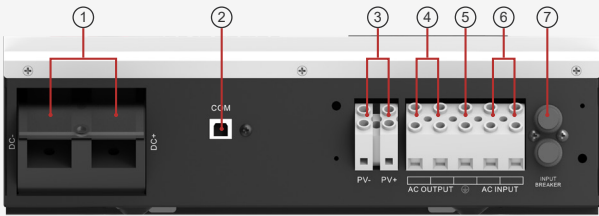
600W-1500W | 120VAC



It is a cost effective, intelligent solar inverter which accepts Solar & Utility input at the same time. The comprehensive LCD display offers user-configurable and easy-accessible button adjustment such as battery charging current, AC/solar charger priority and DC priority. When battery voltage is low, it will automatically switch to AC grid to supply continuous power to the loads.

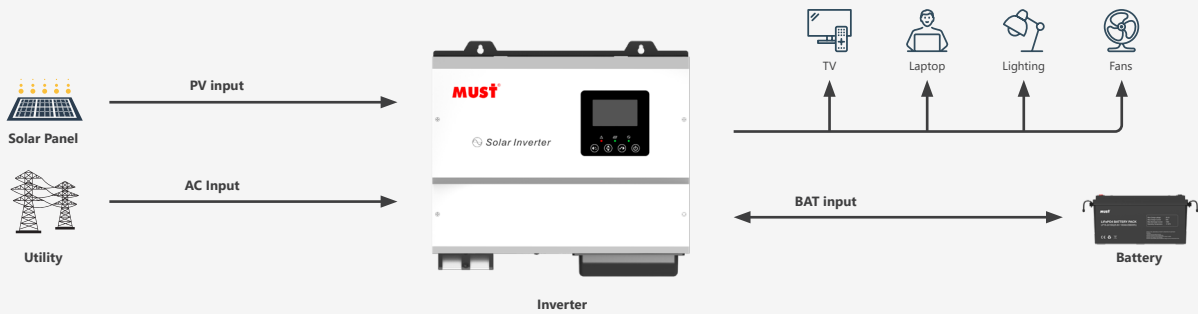
- Built-in 40A MPPT Solar Charge Controller
- 40A@12VDC or 20A@24VDC standard charging current from utility AC
- AC/solar priority for charging via MFD
- Different charging mode for different kinds of batteries
- Overload & short-circuit protection, Battery reverse polarity protection, Deep discharge protection
- Auto restart while AC/solar is recovering Adjustable solar and utility charging current
- Support fast max charging current setting
- Support two kinds of batteries: LiFePO4 Lithium Battery Pack and Lead-acid Battery
- Automatic activate lithium battery pack which is being over discharged no output when AC Grid or PV input is OK

Back panel description



1. DC Input
2. Communication port
3. Solar panel terminal
4. AC Output
5. Ground
6. AC Input
7. Input fuse

Solar system connection



| MODEL                                                                                                           | PV15-0612 LV                                 | PV15-1012 LV   | PV15-1524 LV     |             |
|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------|------------------|-------------|
| Nominal Battery System Voltage                                                                                  | 12VDC                                        | 12VDC          | 24VDC            |             |
| NVERTER OUTPUT                                                                                                  |                                              |                |                  |             |
| Rated Power                                                                                                     | 600VA / 600W                                 | 1000VA / 1000W | 1500VA / 1500W   |             |
| Waveform                                                                                                        | Pure Sine Wave                               |                |                  |             |
| Nominal Output Voltage RMS                                                                                      | 120VAC                                       |                |                  |             |
| Output Voltage Regulation                                                                                       | +10/-18%                                     |                |                  |             |
| Output Frequency                                                                                                | 50Hz / 60Hz ± 1Hz                            |                |                  |             |
| Inverter Efficiency (Peak)                                                                                      | >90%                                         |                |                  |             |
| Line Mode Efficiency                                                                                            | >95%                                         |                |                  |             |
| Typical Transfer Time                                                                                           | Typical 10ms(UPS,UL) , Typical 20ms(APL,DEF) |                |                  |             |
| AC INPUT                                                                                                        |                                              |                |                  |             |
| Voltage                                                                                                         | 120VAC                                       |                |                  |             |
| Voltage Range                                                                                                   | 74 ~ 145VAC ± 3%                             |                |                  |             |
| Frequency Range                                                                                                 | 40 ~ 65Hz ± 2Hz                              |                |                  |             |
| BATTERY                                                                                                         |                                              |                |                  |             |
| Note: Below Parameters (PB) Lead-acid Battery / (LI) LiFePO4 Lithium Battery Pack - 12V(4 Series) 24V(8 Series) |                                              |                |                  |             |
| Nominal Input Voltage                                                                                           | 12VDC                                        |                | 24VDC            |             |
| Low Battery Cutoff                                                                                              | 10.5VDC(PB)                                  | 11.5VDC(LI)    | 21.0VDC(PB)      | 23.0VDC(LI) |
| Low Battery Alarm                                                                                               | 11.0VDC(PB)                                  | 12.0VDC(LI)    | 22.0VDC(PB)      | 24.0VDC(LI) |
| Low Battery Voltage Recover                                                                                     | 12.5VDC(PB)                                  | 12.8VDC(LI)    | 25.0VDC(PB)      | 25.6VDC(LI) |
| High Battery Voltage Recover                                                                                    | 14.5VDC(PB)                                  | 14.5VDC(LI)    | 29.0VDC(PB)      | 29.0VDC(LI) |
| High Battery Voltage Cutoff                                                                                     | 15.0VDC(PB)                                  | 15.0VDC(LI)    | 30.0VDC(PB)      | 30.0VDC(LI) |
| Charger Voltage boost                                                                                           | 14.4VDC(PB)                                  | 14.4VDC(LI)    | 28.8VDC(PB)      | 28.8VDC(LI) |
| Charger Voltage float                                                                                           | 13.8VDC(PB)                                  | 14.4VDC(LI)    | 27.6VDC(PB)      | 28.8VDC(LI) |
| SOLAR CHARGER & AC CHARGER                                                                                      |                                              |                |                  |             |
| Maximum PV Charge Current                                                                                       | 40A (max)                                    |                |                  |             |
| Maximum PV Array Power                                                                                          | 600W                                         |                | 1200W            |             |
| MPPT Operating Voltage Range                                                                                    | 15 ~ 75VDC                                   |                | 30 ~ 75VDC       |             |
| Maximum PV Array Open Voltage                                                                                   | 105VDC                                       |                |                  |             |
| Maximum Efficiency                                                                                              | > 95%                                        |                |                  |             |
| AC Charging Current Max                                                                                         | 40A (Can be set)                             |                | 20A (Can be set) |             |
| Maximum Charge Current AC+PV                                                                                    | 80A (Can be set)                             |                | 60A (Can be set) |             |
| BYPASS & PROTECTION                                                                                             |                                              |                |                  |             |
| Output Short Circuit Protection                                                                                 | FUSE                                         |                |                  |             |
| Bypass breaker Rating                                                                                           | 15A                                          | 20A            | 30A              |             |
| Max Bypass Current                                                                                              | 15A                                          | 20A            | 30A              |             |
| Battery Fuse Current                                                                                            | 50A * 2                                      | 50A * 3        | 40A * 3          |             |
| DIMENSIONS                                                                                                      |                                              |                |                  |             |
| Machine Dimension (W*H*D)(mm)                                                                                   | 320*264.5*95                                 |                |                  |             |
| Package Dimension (W*H*D)(mm)                                                                                   | 390*335*167                                  |                |                  |             |
| N.W(kg)                                                                                                         | 4.5                                          | 4.7            |                  |             |
| G.W(kg)                                                                                                         | 5.4                                          | 5.6            |                  |             |
| OTHER                                                                                                           |                                              |                |                  |             |
| Operation Temperature Range                                                                                     | 0°C to 45°C                                  |                |                  |             |
| Audible Noise                                                                                                   | 50dB MAX                                     |                |                  |             |
| Display                                                                                                         | LED+LCD                                      |                |                  |             |
| Standard Warranty                                                                                               | 2years                                       |                |                  |             |
| CERTIFICATION & STANDARDS                                                                                       |                                              |                |                  |             |

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