

EP3000 Pro Series  
Low Frequency Pure Sine Wave Inverter

Feature:

- Rated power 1kw to 6kw
- Pure sine wave output
- 3 times surge power
- Wide frequency 40Hz-80Hz
- Overload and short circuit protection
- Built-in pure copper UI transformer
- Smart battery charger designed for optimized battery performance
- Cold start function
- Support RS232 monitoring function with free CD
- Support BTS and AGS function
- DIP Switch offer customized performance
- Remote Control Panel (optional)
- Compatible to generator

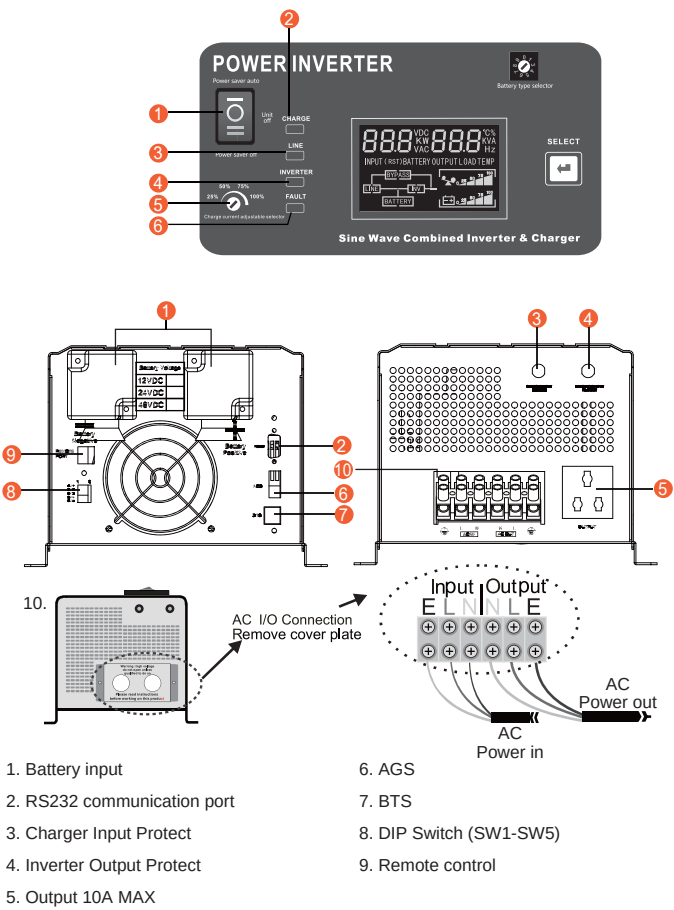
Back Panel



Introduction:

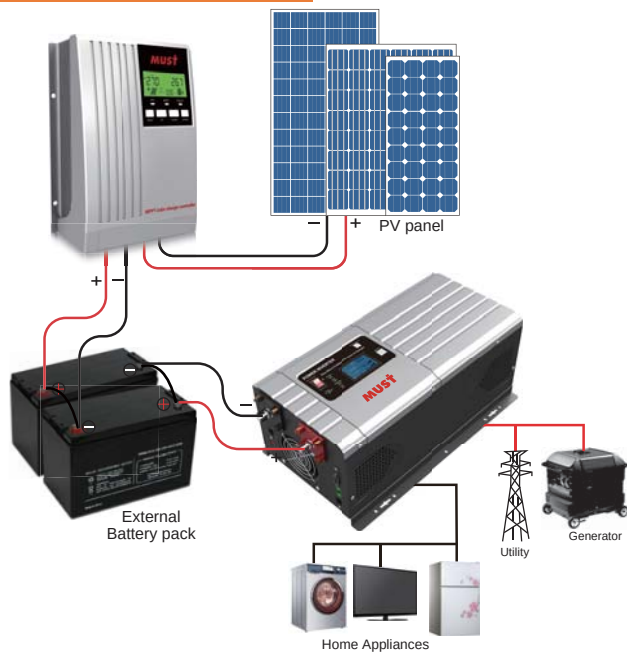
EP3000 Pro series is a very economical pure sine wave inverter with AC charger from 35A to 70A .Solar /AC priority configurable . When solar priority , When solar charging current is lower then utility, the AC will supply to charge batteries, to optimize charging the. With pure copper transformer inside, which let it be suitable for all kinds of home appliance.

LCD/LED Display Information



|                                                          |                                                                                  |
|----------------------------------------------------------|----------------------------------------------------------------------------------|
| 1. Switch                                                | Power saver auto: Power on with saver mode(power saver ≤25W)                     |
|                                                          | Unit Off: Power totally off(If there is AC power,inverter have charger function) |
|                                                          | Power saver off: Power on without saver mode                                     |
| 2. CHARGE                                                | AC Charge Indicator                                                              |
| 3. LINE                                                  | AC power Indicator                                                               |
| 4. INVERTER                                              | Inverter Indicator                                                               |
| 5. FAULT                                                 | Check inverter                                                                   |
| 6. Charge current adjustable:25%,50%,75%,100%.(Optional) |                                                                                  |

Solar System Connection



Specification

| MODEL                          |                                    | EP30-1KW PRO                                                  |             | EP30-1.5KW PRO |       | EP30-2KW PRO |       | EP30-3KW PRO |       |       | EP30-4KW PRO |               | EP30-5KW PRO |                            | EP30-6KW PRO |       |  |
|--------------------------------|------------------------------------|---------------------------------------------------------------|-------------|----------------|-------|--------------|-------|--------------|-------|-------|--------------|---------------|--------------|----------------------------|--------------|-------|--|
| Nominal Battery System Voltage |                                    | 12VDC                                                         | 24VDC       | 12VDC          | 24VDC | 12VDC        | 24VDC | 12VDC        | 24VDC | 48VDC | 24VDC        | 48VDC         | 24VDC        | 48VDC                      | 24VDC        | 48VDC |  |
| INVERTER OUTPUT                | Reted Power                        | 1.0KW                                                         |             | 1.5KW          |       | 2KW          |       | 3KW          |       |       | 4KW          |               | 5KW          |                            | 6KW          |       |  |
|                                | Surge Rating (20ms)                | 3.0KW                                                         |             | 4.5KW          |       | 6.0KW        |       | 9.0KW        |       |       | 12KW         |               | 15KVA        |                            | 18KW         |       |  |
|                                | Capable Of Starting Electric Motor | 1HP                                                           |             | 1HP            |       | 1HP          |       | 2HP          |       |       |              |               | 3HP          |                            |              |       |  |
|                                | Waveform                           | Pure sine wave/ same as input (bypass mode)                   |             |                |       |              |       |              |       |       |              |               |              |                            |              |       |  |
|                                | Nominal Output Voltage RMS         | 100V/110V/120VAC 220V/230V/240VAC(±10% RMS)                   |             |                |       |              |       |              |       |       |              |               |              | 220V/230V/240VAC(±10% RMS) |              |       |  |
|                                | Output Frequency                   | 50Hz/60Hz±0.3 Hz                                              |             |                |       |              |       |              |       |       |              |               |              |                            |              |       |  |
|                                | Inverter Efficiency(Peak)          | >88%                                                          |             |                |       |              |       |              |       |       |              |               |              |                            |              |       |  |
|                                | Line Mode Efficiency               | >95%                                                          |             |                |       |              |       |              |       |       |              |               |              |                            |              |       |  |
|                                | Power Factor                       | 1.0                                                           |             |                |       |              |       |              |       |       |              |               |              |                            |              |       |  |
| AC INPUT                       | Typical Transfer Time              | 10ms(max)                                                     |             |                |       |              |       |              |       |       |              |               |              |                            |              |       |  |
|                                | Voltage                            | 230VAC                                                        |             |                |       |              |       |              |       |       |              |               |              |                            |              |       |  |
|                                | Selectable Voltage Range           | 96~132VAC 155~280VAC(For Personal Computers)                  |             |                |       |              |       |              |       |       |              |               |              |                            |              |       |  |
|                                | Frequency Range                    | 50Hz/60Hz (Auto sensing) 40~80Hz                              |             |                |       |              |       |              |       |       |              |               |              |                            |              |       |  |
| BATTERY                        | Minimum Start Voltage              | 10.0VDC /10.5VDC for12VDC mode (*2 for 24VDC, *4 for 48VDC)   |             |                |       |              |       |              |       |       |              |               |              |                            |              |       |  |
|                                | Low Battery Alarm                  | 10.5VDC ±0.3V for12VDC mode (*2 for 24VDC, *4 for 48VDC)      |             |                |       |              |       |              |       |       |              |               |              |                            |              |       |  |
|                                | Low Battery Cut off                | 10.0VDC ±0.3V for12VDC mode (*2 for 24VDC, *4 for 48VDC)      |             |                |       |              |       |              |       |       |              |               |              |                            |              |       |  |
|                                | High Voltage Alarm                 | 16.0VDC ±0.3V for12VDC mode (*2 for 24VDC, *4 for 48VDC)      |             |                |       |              |       |              |       |       |              |               |              |                            |              |       |  |
|                                | High Battery Voltage Recover       | 15.5VDC ±0.3V for12VDC mode V                                 |             |                |       |              |       |              |       |       |              |               |              |                            |              |       |  |
|                                | Idle Consumption-Search Mode       | <25W when power saver on                                      |             |                |       |              |       |              |       |       |              |               |              |                            |              |       |  |
| CHARGER                        | Output Voltage                     | Depends on battery type                                       |             |                |       |              |       |              |       |       |              |               |              |                            |              |       |  |
|                                | Charger AC Input Breaker Rrating   | 10A                                                           |             | 30A            |       | 30A          |       | 30A          |       |       | 40A          |               |              |                            |              |       |  |
|                                | Overcharge Protection S.D.         | 15.7VDC for 12VDC mode (*2 for 24VDC mode, *4 for 48VDC mode) |             |                |       |              |       |              |       |       |              |               |              |                            |              |       |  |
|                                | Maximum Charge Current             | 35A                                                           | 20A         | 45A            | 25A   | 65A          | 35A   | 75A          | 45A   | 30A   | 65A          | 35A           | 70A          | 40A                        | 75A          | 50A   |  |
| BYPASS & PROTECTION            | Input Voltage Waveform             | Sine wave (grid or generator)                                 |             |                |       |              |       |              |       |       |              |               |              |                            |              |       |  |
|                                | Nominal Input Frequency            | 50Hz or 60Hz                                                  |             |                |       |              |       |              |       |       |              |               |              |                            |              |       |  |
|                                | Overload Protection (SMPS Load)    | Circuit breaker                                               |             |                |       |              |       |              |       |       |              |               |              |                            |              |       |  |
|                                | Output Short Circuit Protection    | Circuit breaker                                               |             |                |       |              |       |              |       |       |              |               |              |                            |              |       |  |
|                                | Bypass Breaker Rating              | 10A                                                           |             | 30A            |       | 30A          |       | 30A          |       | 30A   | 40A          |               |              |                            |              |       |  |
|                                | Max Bypass Current                 | 30Amp                                                         |             |                |       |              |       |              |       |       |              |               |              |                            |              |       |  |
| MECHANICAL SPECIFICATIONS      | Mounting                           | Wall Mount                                                    |             |                |       |              |       |              |       |       |              |               |              |                            |              |       |  |
|                                | Dimensions (W*H*D)                 | 426*206*178 mm                                                |             |                |       |              |       |              |       |       |              | 601*206*178mm |              |                            |              |       |  |
|                                | Net Weight (Solar CHG) kg          | 16.5                                                          |             | 17             |       | 21.1         | 20    | 26           | 24.5  | 24.8  | 38.2         | 35.8          | 45.2         | 45                         | 45.2         | 45    |  |
|                                | Shipping Dimensions(W*H*D)         | 570*335*300mm                                                 |             |                |       |              |       |              |       |       |              | 750*335*300mm |              |                            |              |       |  |
|                                | Shipping Weight (Solar CHG) kg     | 19.3                                                          |             | 20             |       | 24.1         | 22.8  | 29.1         | 27.5  | 27.5  | 42.3         | 40            | 49.5         | 49.3                       | 49.5         | 49.3  |  |
|                                | OTHER                              | Operation Temperature Range                                   | 0°C to 40°C |                |       |              |       |              |       |       |              |               |              |                            |              |       |  |
| Storage Temperature            |                                    | -15°C to 60°C                                                 |             |                |       |              |       |              |       |       |              |               |              |                            |              |       |  |
| Audible Noise                  |                                    | 60dB MAX                                                      |             |                |       |              |       |              |       |       |              |               |              |                            |              |       |  |
| Display                        |                                    | LED+LCD                                                       |             |                |       |              |       |              |       |       |              |               |              |                            |              |       |  |
| Standard Warranty              |                                    | 1 year                                                        |             |                |       |              |       |              |       |       |              |               |              |                            |              |       |  |

\* Product specifications are subject to change without further notice.

Approximate Back-up Time Table

| Power Rate(w) | backup time(H)<br>@1*100Ah | backup time(H)<br>@2*100Ah | backup time(H)<br>@4*100Ah | backup time(H)<br>@4*200Ah | backup time(H)<br>@8*200Ah |
|---------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| 1000          | 0.4806                     | 1.602                      | 3.50304                    | 7.6896                     |                            |
| 2000          | 0.2136                     | 0.4806                     | 1.602                      | 3.50304                    | 7.6896                     |
| 3000          | 0.1068                     | 0.2848                     | 0.8544                     | 2.136                      | 4.8416                     |
| 4000          |                            | 0.2136                     | 0.4806                     | 1.602                      | 3.50304                    |
| 5000          |                            | 0.12816                    | 0.34176                    | 1.19616                    | 2.73408                    |
| 6000          |                            | 0.1068                     | 0.2848                     | 0.8544                     | 2.136                      |