

Low Frequency Power Inverter/Charger

EP3000 Pro Series (1KW-6KW)



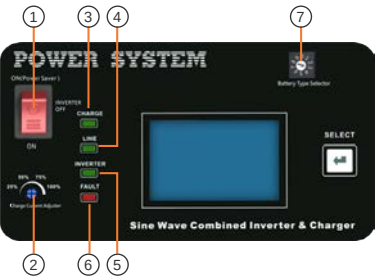
Features

- LCD display ,easy to read how inverter operates on LCD screen
- Compatible to generator
- 5 -levels DIP switch ,offering customized performance
- 9 - levels battery selector ,Enable to charge Gel , lead-acid battery
- DC(Solar)/AC prority optional
- 4 levels charge current adjustable
- With RS232 communication port
- With BTS & AGS , optimazing battery performance & start generator automatically
- Power saver Switch , Enable to minimize standby consumption

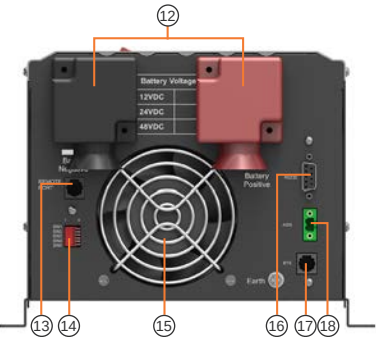
Introduction

EP3000 PRO series is very economical pure sine wave inverter, AC charger inbuilt, from 35A to 70A; Solar/AC priority is configurable, when setting solar priority, solar will charge batteries as first priority, and AC can also charge batteries when solar charger current too lower, in this way system charge is optimized best. With pure copper transformer, it enables inverter to operate with all kinds of home appliances.

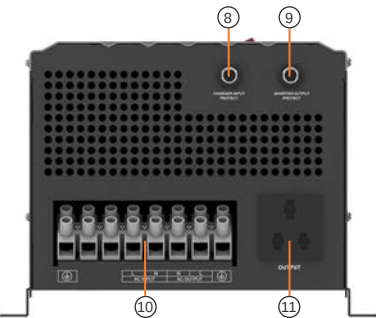
Back panel printing description



- 1. Switch On\Off
- 2. Charge current adjustable
- 3. AC Charge Indicator
- 4. AC power Indicator
- 5. Inverter Indicator
- 6. Fault Indicator

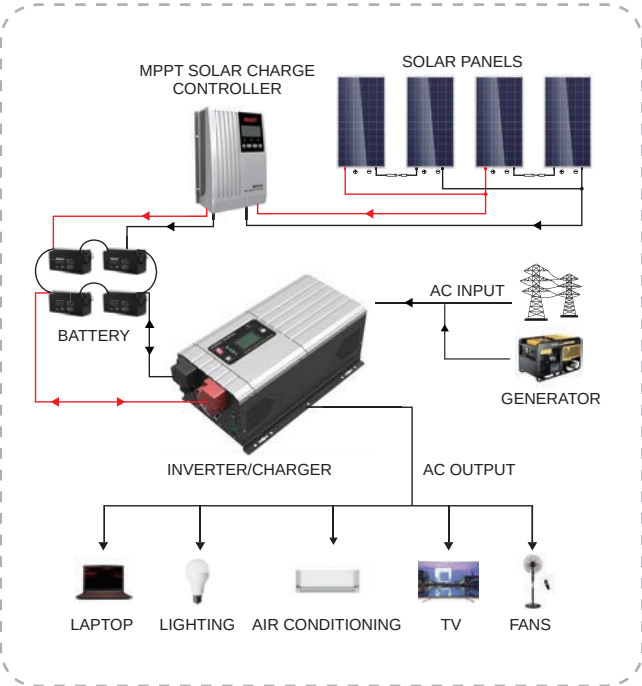


- 7. Battery type selector
- 8. Charger Input Protection
- 9. Inverter Output Protection
- 10.AC I/O Connection
- 11.AC Output 10A MAX
- 12.Battery input



- 13.Remote control
- 14.DIP Switch (SW1-SW5)
- 15.Fan
- 16.RS232 communication port
- 17.BTS
- 18.AGS

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                | Rated 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 \ 120V \ 220V \ 230V \ 240VAC (±10% RMS)           |       |                |       |              |       |              |       |       |              |               | 220V \ 230V \ 240VAC (±10% RMS) |       |              |       |
|                                | Output Frequency                   | 50Hz \ 60Hz ±0.3Hz                                            |       |                |       |              |       |              |       |       |              |               |                                 |       |              |       |
|                                | Inverter Efficiency (Peak)         | >88%                                                          |       |                |       |              |       |              |       |       |              |               |                                 |       |              |       |
|                                | Line Mode Efficiency               | >95%                                                          |       |                |       |              |       |              |       |       |              |               |                                 |       |              |       |
|                                | Power Factor                       | 1.0                                                           |       |                |       |              |       |              |       |       |              |               |                                 |       |              |       |
|                                | Typical Transfer Time              | 10ms(max)                                                     |       |                |       |              |       |              |       |       |              |               |                                 |       |              |       |
| AC INPUT                       | Voltage                            | 230VAC                                                        |       |                |       |              |       |              |       |       |              |               |                                 |       |              |       |
|                                | Selectable Voltage Range           | 96~132VAC 155~280VAC(For personal computers)                  |       |                |       |              |       |              |       |       |              |               |                                 |       |              |       |
|                                | Frequency Range                    | 50Hz \ 60Hz(Auto sensing) 40~80Hz                             |       |                |       |              |       |              |       |       |              |               |                                 |       |              |       |
| BATTERY                        | Minimum Start Voltage              | 10.5VDC \ 11VDC for 12VDC mode(*2 for 24VDC, *4 for 48VDC)    |       |                |       |              |       |              |       |       |              |               |                                 |       |              |       |
|                                | Low Battery Alarm                  | 11VDC ±0.3V for 12VDC mode(*2 for 24VDC, *4 for 48VDC)        |       |                |       |              |       |              |       |       |              |               |                                 |       |              |       |
|                                | Low Battery Cut Off                | 10.5VDC ±0.3V for 12VDC mode(*2 for 24VDC, *4 for 48VDC)      |       |                |       |              |       |              |       |       |              |               |                                 |       |              |       |
|                                | High Voltage Alarm                 | 16.0VDC ±0.3V for 12VDC mode(*2 for 24VDC, *4 for 48VDC)      |       |                |       |              |       |              |       |       |              |               |                                 |       |              |       |
|                                | High Battery Voltage Recover       | 15.5VDC ±0.3V for 12VDC mode                                  |       |                |       |              |       |              |       |       |              |               |                                 |       |              |       |
|                                | Idie Consumption-Search Mode       | <25W when power saver on                                      |       |                |       |              |       |              |       |       |              |               |                                 |       |              |       |
| CHARGER                        | Output Voltage                     | Depends on battery type                                       |       |                |       |              |       |              |       |       |              |               |                                 |       |              |       |
|                                | Charge AC Input Breaker Rating     | 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*178mm                                                 |       |                |       |              |       |              |       |       |              | 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)        | 5570*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℃ to 40℃                                                     |       |                |       |              |       |              |       |       |              |               |                                 |       |              |       |
|                                | Storage Temperature                | -15℃ to 60℃                                                   |       |                |       |              |       |              |       |       |              |               |                                 |       |              |       |
|                                | Audible Noise                      | 60dB MAX                                                      |       |                |       |              |       |              |       |       |              |               |                                 |       |              |       |
|                                | Display                            | LED+LCD                                                       |       |                |       |              |       |              |       |       |              |               |                                 |       |              |       |
|                                | Standard Warranty                  | 1 year, 2 or 3 years optional (IP20)                          |       |                |       |              |       |              |       |       |              |               |                                 |       |              |       |