

## 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)
- Solar priority function
- Compatible to generator

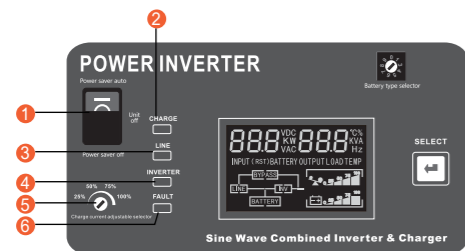
### Back Panel



### 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.

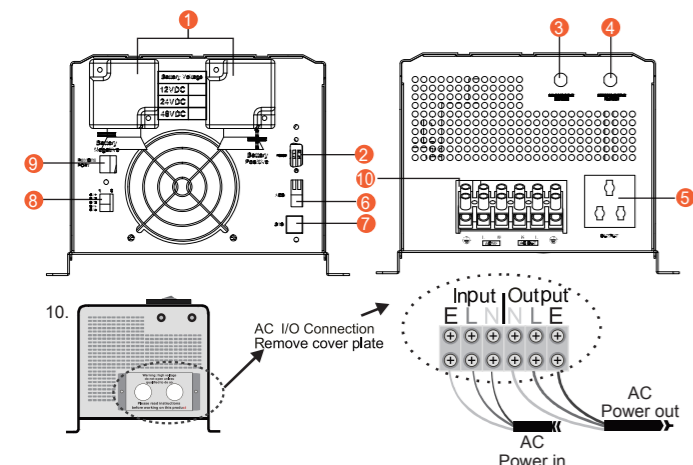
### LCD/LED Display Information



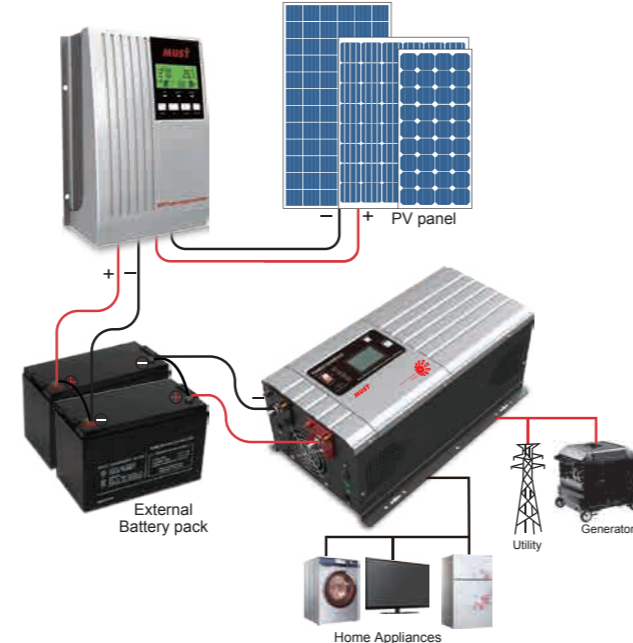
|           |   |
|-----------|---|
| 1. Switch | Power saver auto: Power on with saver mode(power saver ≤25W)                      |
|           | Unit Off: Power totally off(If there is AC power, inverter have charger function) |
|           | Power saver off: Power on without saver mode                                      |

- |           |                     |   |                    |
|-----------|---------------------|---|--------------------|
| 2. CHARGE | AC Charge Indicator | 4. INVERTER   | Inverter Indicator |
| 3. LINE   | AC power Indicator  | 5. FAULT  | Check inverter     |
|           |                     | 6. Charge current adjustable: 25%, 50%, 75%, 100%. (Optional) |                    |

### Solar System Connection



- |                             |                         |
|-----------------------------|-------------------------|
| 1. Battery input            | 6. AGS                  |
| 2. RS232 communication port | 7. BTS                  |
| 3. Charger Input Protect    | 8. DIP Switch (SW1-SW5) |
| 4. Inverter Output Protect  | 9. Remote control       |
| 5. Output 10A MAX           |                         |



### Specification

| MODEL                                 | EP30-1KW PRO  | EP30-1.5KW PRO | EP30-2KW PRO  | EP30-3KW PRO  | EP30-4KW PRO               | EP30-5KW PRO  | EP30-6KW PRO               |                             |   |       |      |      |      |     |     |                                 |  |       |       |       |               |       |      |                                    |   |     |      |     |    |      |      |                                 |  |      |     |      |     |                            |               |                              |                               |     |               |     |                            |                                |                            |                              |                          |       |      |      |      |      |    |                           |      |      |      |  |  |  |  |                      |      |  |  |  |  |  |  |              |     |  |  |  |  |  |  |                       |           |  |  |  |  |  |  |
|---------------------------------------|---|----------------|---------------|---------------|----------------------------|---------------|----------------------------|-----------------------------|---|-------|------|------|------|-----|-----|---------------------------------|--|-------|-------|-------|---------------|-------|------|------------------------------------|---|-----|------|-----|----|------|------|---------------------------------|--|------|-----|------|-----|----------------------------|---------------|------------------------------|-------------------------------|-----|---------------|-----|----------------------------|--------------------------------|----------------------------|------------------------------|--------------------------|-------|------|------|------|------|----|---------------------------|------|------|------|--|--|--|--|----------------------|------|--|--|--|--|--|--|--------------|-----|--|--|--|--|--|--|-----------------------|-----------|--|--|--|--|--|--|
| <b>Nominal Battery System Voltage</b> | 12VDC   24VDC   | 12VDC   24VDC  | 12VDC   24VDC | 12VDC   24VDC | 12VDC   24VDC              | 24VDC   48VDC | 24VDC   48VDC              |                             |   |       |      |      |      |     |     |                                 |  |       |       |       |               |       |      |                                    |   |     |      |     |    |      |      |                                 |  |      |     |      |     |                            |               |                              |                               |     |               |     |                            |                                |                            |                              |                          |       |      |      |      |      |    |                           |      |      |      |  |  |  |  |                      |      |  |  |  |  |  |  |              |     |  |  |  |  |  |  |                       |           |  |  |  |  |  |  |
| <b>INVERTER OUTPUT</b>                | <table border="0"> <tr> <td>Rated Power</td> <td>1.0KW</td> <td>1.5KW</td> <td>2KW</td> <td>3KW</td> <td>4KW</td> <td>5KW</td> <td>6KW</td> </tr> <tr> <td>Surge Rating (20ms)</td> <td>3.0KW</td> <td>4.5KW</td> <td>6.0KW</td> <td>9.0KW</td> <td>12KW</td> <td>15KVA</td> <td>18KW</td> </tr> <tr> <td>Capable Of Starting Electric Motor</td> <td>1HP</td> <td>1HP</td> <td>1HP</td> <td colspan="2">2HP</td> <td colspan="2">3HP</td> </tr> <tr> <td>Waveform</td> <td colspan="7">Pure sine wave/ same as input (bypass mode)</td> </tr> <tr> <td>Nominal Output Voltage RMS</td> <td colspan="4">100V/110V/120VAC</td> <td colspan="2">220V/230V/240VAC(±10% RMS)</td> <td>220V/230V/240VAC(±10% RMS)</td> </tr> <tr> <td>Output Frequency</td> <td colspan="7">50Hz/60Hz±0.3 Hz</td> </tr> <tr> <td>Inverter Efficiency(Peak)</td> <td colspan="7">&gt;88%</td> </tr> <tr> <td>Line Mode Efficiency</td> <td colspan="7">&gt;95%</td> </tr> <tr> <td>Power Factor</td> <td colspan="7">1.0</td> </tr> <tr> <td>Typical Transfer Time</td> <td colspan="7">10ms(max)</td> </tr> </table> |                |               |               |                            |               |                            | 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/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 |  |  |  |  |  |  | Typical Transfer Time | 10ms(max) |  |  |  |  |  |  |
| 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/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   |                |               |               |                            |               |                            |                             |   |       |      |      |      |     |     |                                 |  |       |       |       |               |       |      |                                    |   |     |      |     |    |      |      |                                 |  |      |     |      |     |                            |               |                              |                               |     |               |     |                            |                                |                            |                              |                          |       |      |      |      |      |    |                           |      |      |      |  |  |  |  |                      |      |  |  |  |  |  |  |              |     |  |  |  |  |  |  |                       |           |  |  |  |  |  |  |
| Typical Transfer Time                 | 10ms(max)   |                |               |               |                            |               |                            |                             |   |       |      |      |      |     |     |                                 |  |       |       |       |               |       |      |                                    |   |     |      |     |    |      |      |                                 |  |      |     |      |     |                            |               |                              |                               |     |               |     |                            |                                |                            |                              |                          |       |      |      |      |      |    |                           |      |      |      |  |  |  |  |                      |      |  |  |  |  |  |  |              |     |  |  |  |  |  |  |                       |           |  |  |  |  |  |  |
| <b>AC INPUT</b>                       | <table border="0"> <tr> <td>Voltage</td> <td colspan="7">230VAC</td> </tr> <tr> <td>Selectable Voltage Range</td> <td colspan="7">96~132VAC 155~280VAC(For Personal Computers)</td> </tr> <tr> <td>Frequency Range</td> <td colspan="7">50Hz/60Hz (Auto sensing) 40~80Hz</td> </tr> </table>  |                |               |               |                            |               |                            | Voltage                     | 230VAC  |       |      |      |      |     |     | Selectable Voltage Range        | 96~132VAC 155~280VAC(For Personal Computers)             |       |       |       |               |       |      | Frequency Range                    | 50Hz/60Hz (Auto sensing) 40~80Hz                              |     |      |     |    |      |      |                                 |  |      |     |      |     |                            |               |                              |                               |     |               |     |                            |                                |                            |                              |                          |       |      |      |      |      |    |                           |      |      |      |  |  |  |  |                      |      |  |  |  |  |  |  |              |     |  |  |  |  |  |  |                       |           |  |  |  |  |  |  |
| Voltage                               | 230VAC  |                |               |               |                            |               |                            |                             |   |       |      |      |      |     |     |                                 |  |       |       |       |               |       |      |                                    |   |     |      |     |    |      |      |                                 |  |      |     |      |     |                            |               |                              |                               |     |               |     |                            |                                |                            |                              |                          |       |      |      |      |      |    |                           |      |      |      |  |  |  |  |                      |      |  |  |  |  |  |  |              |     |  |  |  |  |  |  |                       |           |  |  |  |  |  |  |
| Selectable Voltage Range              | 96~132VAC 155~280VAC(For Personal Computers)  |                |               |               |                            |               |                            |                             |   |       |      |      |      |     |     |                                 |  |       |       |       |               |       |      |                                    |   |     |      |     |    |      |      |                                 |  |      |     |      |     |                            |               |                              |                               |     |               |     |                            |                                |                            |                              |                          |       |      |      |      |      |    |                           |      |      |      |  |  |  |  |                      |      |  |  |  |  |  |  |              |     |  |  |  |  |  |  |                       |           |  |  |  |  |  |  |
| Frequency Range                       | 50Hz/60Hz (Auto sensing) 40~80Hz  |                |               |               |                            |               |                            |                             |   |       |      |      |      |     |     |                                 |  |       |       |       |               |       |      |                                    |   |     |      |     |    |      |      |                                 |  |      |     |      |     |                            |               |                              |                               |     |               |     |                            |                                |                            |                              |                          |       |      |      |      |      |    |                           |      |      |      |  |  |  |  |                      |      |  |  |  |  |  |  |              |     |  |  |  |  |  |  |                       |           |  |  |  |  |  |  |
| <b>BATTERY</b>                        | <table border="0"> <tr> <td>Minimum Start Voltage</td> <td colspan="7">10.0VDC /10.5VDC for12VDC mode (*2 for 24VDC, *4 for 48VDC)</td> </tr> <tr> <td>Low Battery Alarm</td> <td colspan="7">10.5VDC ±0.3V for12VDC mode (*2 for 24VDC, *4 for 48VDC)</td> </tr> <tr> <td>Low Battery Cut off</td> <td colspan="7">10.0VDC ±0.3V for12VDC mode (*2 for 24VDC, *4 for 48VDC)</td> </tr> <tr> <td>High Voltage Alarm</td> <td colspan="7">16.0VDC ±0.3V for12VDC mode (*2 for 24VDC, *4 for 48VDC)</td> </tr> <tr> <td>High Battery Voltage Recover</td> <td colspan="7">15.5VDC ±0.3V for12VDC mode V</td> </tr> <tr> <td>Idle Consumption-Search Mode</td> <td colspan="7">&lt;25W when power saver on</td> </tr> </table>   |                |               |               |                            |               |                            | 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 |       |      |      |      |      |    |                           |      |      |      |  |  |  |  |                      |      |  |  |  |  |  |  |              |     |  |  |  |  |  |  |                       |           |  |  |  |  |  |  |
| 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  |                |               |               |                            |               |                            |                             |   |       |      |      |      |     |     |                                 |  |       |       |       |               |       |      |                                    |   |     |      |     |    |      |      |                                 |  |      |     |      |     |                            |               |                              |                               |     |               |     |                            |                                |                            |                              |                          |       |      |      |      |      |    |                           |      |      |      |  |  |  |  |                      |      |  |  |  |  |  |  |              |     |  |  |  |  |  |  |                       |           |  |  |  |  |  |  |
| <b>CHARGER</b>                        | <table border="0"> <tr> <td>Output Voltage</td> <td colspan="7">Depends on battery type</td> </tr> <tr> <td>Charger AC Input Breaker Rating</td> <td>10A</td> <td>30A</td> <td>30A</td> <td>30A</td> <td>40A</td> <td colspan="2"></td> </tr> <tr> <td>Overcharge Protection S.D.</td> <td colspan="7">15.7VDC for 12VDC mode (*2 for 24VDC mode, *4 for 48VDC mode)</td> </tr> <tr> <td>Maximum Charge Current</td> <td>35A</td> <td>20A</td> <td>45A</td> <td>25A</td> <td>65A</td> <td>35A</td> <td>75A</td> <td>45A</td> <td>30A</td> <td>65A</td> <td>35A</td> <td>70A</td> <td>40A</td> <td>75A</td> <td>50A</td> </tr> </table>  |                |               |               |                            |               |                            | Output Voltage              | Depends on battery type                                     |       |      |      |      |     |     | Charger 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                        |                              |                          |       |      |      |      |      |    |                           |      |      |      |  |  |  |  |                      |      |  |  |  |  |  |  |              |     |  |  |  |  |  |  |                       |           |  |  |  |  |  |  |
| Output Voltage                        | Depends on battery type   |                |               |               |                            |               |                            |                             |   |       |      |      |      |     |     |                                 |  |       |       |       |               |       |      |                                    |   |     |      |     |    |      |      |                                 |  |      |     |      |     |                            |               |                              |                               |     |               |     |                            |                                |                            |                              |                          |       |      |      |      |      |    |                           |      |      |      |  |  |  |  |                      |      |  |  |  |  |  |  |              |     |  |  |  |  |  |  |                       |           |  |  |  |  |  |  |
| Charger 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 |                                 |  |       |       |       |               |       |      |                                    |   |     |      |     |    |      |      |                                 |  |      |     |      |     |                            |               |                              |                               |     |               |     |                            |                                |                            |                              |                          |       |      |      |      |      |    |                           |      |      |      |  |  |  |  |                      |      |  |  |  |  |  |  |              |     |  |  |  |  |  |  |                       |           |  |  |  |  |  |  |
| <b>BYPASS &amp; PROTECTION</b>        | <table border="0"> <tr> <td>Input Voltage Waveform</td> <td colspan="7">Sine wave (grid or generator)</td> </tr> <tr> <td>Nominal Input Frequency</td> <td colspan="7">50Hz or 60Hz</td> </tr> <tr> <td>Overload Protection (SMPS Load)</td> <td colspan="7">Circuit breaker</td> </tr> <tr> <td>Output Short Circuit Protection</td> <td colspan="7">Circuit breaker</td> </tr> <tr> <td>Bypass Breaker Rating</td> <td>10A</td> <td>30A</td> <td>30A</td> <td>30A</td> <td>30A</td> <td>40A</td> <td colspan="2"></td> </tr> <tr> <td>Max Bypass Current</td> <td colspan="7">30Amp</td> </tr> </table>   |                |               |               |                            |               |                            | 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 |      |      |      |      |    |                           |      |      |      |  |  |  |  |                      |      |  |  |  |  |  |  |              |     |  |  |  |  |  |  |                       |           |  |  |  |  |  |  |
| 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   |                |               |               |                            |               |                            |                             |   |       |      |      |      |     |     |                                 |  |       |       |       |               |       |      |                                    |   |     |      |     |    |      |      |                                 |  |      |     |      |     |                            |               |                              |                               |     |               |     |                            |                                |                            |                              |                          |       |      |      |      |      |    |                           |      |      |      |  |  |  |  |                      |      |  |  |  |  |  |  |              |     |  |  |  |  |  |  |                       |           |  |  |  |  |  |  |
| <b>MECHANICAL SPECIFICATIONS</b>      | <table border="0"> <tr> <td>Mounting</td> <td colspan="7">Wall Mount</td> </tr> <tr> <td>Dimensions (W*H*D)</td> <td colspan="4">426*206*178 mm</td> <td colspan="3">601*206*178mm</td> </tr> <tr> <td>Net Weight (Solar CHG) kg</td> <td>16.5</td> <td>17</td> <td>21.1</td> <td>20</td> <td>26</td> <td>24.5</td> <td>24.8</td> <td>38.2</td> <td>35.8</td> <td>45.2</td> <td>45</td> <td>45.2</td> <td>45</td> </tr> <tr> <td>Shipping Dimensions(W*H*D)</td> <td colspan="4">570*335*300mm</td> <td colspan="3">750*335*300mm</td> </tr> <tr> <td>Shipping Weight (Solar CHG) kg</td> <td>19.3</td> <td>20</td> <td>24.1</td> <td>22.8</td> <td>29.1</td> <td>27.5</td> <td>27.5</td> <td>42.3</td> <td>40</td> <td>49.5</td> <td>49.3</td> <td>49.5</td> <td>49.3</td> </tr> </table>  |                |               |               |                            |               |                            | 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 |  |  |  |  |                      |      |  |  |  |  |  |  |              |     |  |  |  |  |  |  |                       |           |  |  |  |  |  |  |
| 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 |     |     |                                 |  |       |       |       |               |       |      |                                    |   |     |      |     |    |      |      |                                 |  |      |     |      |     |                            |               |                              |                               |     |               |     |                            |                                |                            |                              |                          |       |      |      |      |      |    |                           |      |      |      |  |  |  |  |                      |      |  |  |  |  |  |  |              |     |  |  |  |  |  |  |                       |           |  |  |  |  |  |  |
| <b>OTHER</b>                          | <table border="0"> <tr> <td>Operation Temperature Range</td> <td colspan="7">0°C to 40°C</td> </tr> <tr> <td>Storage Temperature</td> <td colspan="7">-15°C to 60°C</td> </tr> <tr> <td>Audible Noise</td> <td colspan="7">60dB MAX</td> </tr> <tr> <td>Display</td> <td colspan="7">LED+LCD</td> </tr> <tr> <td>Standard Warranty</td> <td colspan="7">1 year</td> </tr> </table>  |                |               |               |                            |               |                            | 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                        |     |               |     |                            |                                |                            |                              |                          |       |      |      |      |      |    |                           |      |      |      |  |  |  |  |                      |      |  |  |  |  |  |  |              |     |  |  |  |  |  |  |                       |           |  |  |  |  |  |  |
| 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                      |