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## Pure Sine Wave Inverter Charger Power Star Series PS8Kw-12Kw (1ph in/1ph out)



### On inverter

- High overload ability
- Low battery voltage trip selectable, extracting max power from various batteries with different protections
- Low quiescent current, selectable sensing cycle to reduce power consumption

### On battery charge

- 3-step intelligent battery charging
- 8 preset battery type selector plus de-sulphation for totally flat batteries
- Powerful charge rate up to 100Amp ,selectable charging current
- PFC(Power Factor Correction) for charger, less power consumption than conventional units

### On Transfer

- Delay before transfer, extra protections for loads under generator mode
- Input AC voltage range selectable, for different kinds of loads
- 8 ms typical transfer time, guarantees power continuity
- 30A/40A through current ability
- Output voltage regulation optional

### On remote control & other features

- Ability to switch the unit on/off
- Ability to select/deselect power saver mode
- 17 alarms/warnings, informative for easier operation and trouble-shooting
- LCD status display available
- RS232 communication port optional

## Technical Specification

|                          |                                                                                                                   |       |               |
|--------------------------|-------------------------------------------------------------------------------------------------------------------|-------|---------------|
| Model No.                | PS8K                                                                                                              | PS10K | PS12K         |
| Nominal Power            | 8KW                                                                                                               | 10KW  | 12KW          |
| AC Input                 |                                                                                                                   |       |               |
| Phase & Waveform         | Single Phase & Pure Sine Wave                                                                                     |       |               |
| Voltage                  | 220/230/240VAC                                                                                                    |       |               |
| Acceptable Voltage       | 154-273VAC                                                                                                        |       |               |
| Line Low Transfer        | 154V                                                                                                              |       |               |
| Line Low Return          | 164V                                                                                                              |       |               |
| Line high Transfer       | 273V                                                                                                              |       |               |
| Line high Return         | 263V                                                                                                              |       |               |
| Frequency                | 50Hz or 60Hz (Auto sensing)                                                                                       |       |               |
| Line Low Transfer        | 40Hz                                                                                                              |       |               |
| Line high Transfer       | 80Hz                                                                                                              |       |               |
| AC Output                |                                                                                                                   |       |               |
| Phase & Waveform         | Single Phase & Pure Sine Wave (bypass mode sync to input)                                                         |       |               |
| Voltage                  | 220/230/240VAC (Same as Input on bypass mode)                                                                     |       |               |
| Voltage Regulation       | ±10%/rms (bypass mode sync to input)                                                                              |       |               |
| Frequency                | 50Hz or 60Hz (Auto sensing)                                                                                       |       |               |
| Over Power               | 3 times of rating power                                                                                           |       |               |
| Short Circuit Protection | Yes,shutdown                                                                                                      |       |               |
| Power Factor             | 0.9-1.0                                                                                                           |       |               |
| DC Input                 |                                                                                                                   |       |               |
| Battery Voltage          | 48V                                                                                                               |       |               |
| Minimum Start Voltage    | 40V                                                                                                               |       |               |
| Low Battery Alarm        | 44V                                                                                                               |       |               |
| Low Battery Transfer     | 40V                                                                                                               |       |               |
| High Voltage Alarm       | 64V                                                                                                               |       |               |
| Max Charging Current     | 75A                                                                                                               |       | 100A          |
| Over Charge Voltage      | 62.8V                                                                                                             |       |               |
| Transfer Efficiency      |                                                                                                                   |       |               |
| Line Mode                | > 95%                                                                                                             |       |               |
| Battery Mode             | > 88%                                                                                                             |       |               |
| power saver              | Available when the load is less than 75 Watts                                                                     |       |               |
| Indicators               |                                                                                                                   |       |               |
| 4-LED Display            | Charge, Line, Inverter, Fault                                                                                     |       |               |
| LCD Display              | Input/Output Voltage, Frequency, Battery Voltage, Load, Temperature, Charge                                       |       |               |
| Switch selector          | Saving Mode is on/off when push the switch forwards/backwards, keeping it horizontal is turning the inverter off. |       |               |
| Audible Alarm            | Sounding when the heatsink's tem is over 105°C and shutdown after 30 seconds.                                     |       |               |
| Protections              | low battery, over charging, over temp, over load                                                                  |       |               |
| Communications           | RS232/RJ11(Optional)                                                                                              |       |               |
| Environmental            |                                                                                                                   |       |               |
| Operating Environment    | 0-40 °C, 0-90%RH(non-condensing)                                                                                  |       |               |
| Audible Noise            | <60dB                                                                                                             |       |               |
| Physical                 |                                                                                                                   |       |               |
| Net Weight(KG)           |                                                                                                                   |       | 64            |
| Dimension L*W*H(mm)      | 549*450*201mm                                                                                                     |       | 584*450*201mm |

\*Specification is subject to change without prior notice.