PV3500 PRO Series (4KW-12KW)
Low Frequency Solar Inverter

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PV3500 PRO series is a multi-function inverter, combining functions of inverter and mppt solar charger controller, solar charger and battery charger to offer uninterruptible power support with portable size. The comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, AC/solar charger priority, and selectable input voltage based on different applications.

FEATURES

- Smart LCD setting (Working modes, Charge Current, Charge voltage, etc.)
- Built-in MPPT solar charge controller 80A/100A/200A
- MPPT efficiency max 98%
- Powerful charge rate up to 140Amp
- DC start & Automatic Self-Diagnostic Function
- WIFI / USB monitoring function with free CD (wi-fi optional)
- Supporting AGS, BTS port
- Compatible to generator

**INTRODUCTION**

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**Rated power**

4KW-12KW

**Battery Voltage**

24V, 48V

**Wide AC input range**

90-280VAC

**Battery smart charge design**

- 3 times surge power based on capacity 4KW-12KW
- MPPT solar charge controller 80A / 100A / 200A
- Multi protection
INVERTER SYSTEM CONNECTION
PV3500 PRO inverter system, it can work with battery as back up power for normal home power demands, which take use of sunshine freely and save lots electricity bill for you.

Solar Inverter System Connection:
Power Inverter + Battery + Solar Panels + Grid + Application Loads

DIFFERENT WORKING MODES (the sequence that the load get power from)
You can choose different working mode based on your need.

- SBU
- SOL
- UTI

MONITORING SYSTEM
With USB can connect with computer monitoring the working stage and the data of PV, AC and battery. LCD setting is also available in computer.
1. Switch ON/OFF
2. LCD display
3. AC/Inverter indicator
4. Charging indicator
5. Fault indicator
6. BAT-
7. BAT+
8. WIFI/USB communication port
9. AC input/Bypass breaker
10. AC output breaker
11. Remote control port
12. Fan
13. BTS
14. AGS
15. AC input
16. AC output
17. PV input
18. Ground
19. PV2 input (optional)
20. PV1 input

<table>
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<tr>
<th>MODEL</th>
<th>PV35 PRO-4K</th>
<th>PV35 PRO-5K</th>
<th>PV35 PRO-6K</th>
<th>PV35 PRO-8K</th>
<th>PV35 PRO-10K</th>
<th>PV35 PRO-12K</th>
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<tbody>
<tr>
<td>Nominal Battery System Voltage</td>
<td>24V</td>
<td>48V</td>
<td>24V</td>
<td>48V</td>
<td>48VDC</td>
<td>48VDC</td>
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**INVERTER OUTPUT**
- Rated power: 4K, 5K, 6K, 8.0K, 10.0K, 12.0K
- Surge rating (20ms): 12K, 15K, 18K, 24K, 30K, 36K
- Capable of starting electric motor: 2HP, 2HP, 3HP, 4HP, 5HP, 6HP
- Waveform: Pure sine wave / same as input (bypass mode)
- Nominal output voltage RMS: 220V / 230V / 240VAC (+/-10% RMS)
- Output frequency: 50Hz / 60Hz +/- 0.3Hz
- Inverter efficiency (peak): >85%
- Line mode efficiency: >95%
- Power factor: 1.0
- Typical transfer time: 20ms (max)

**AC INPUT**
- Voltage: 230VAC
- Selectable voltage range: 90-280VAC (APL)
- Frequency range: 50Hz / 60Hz

**BATTERY**
- Low battery voltage cutoff: 20-24VDC for 24VDC mode (40-48VDC for 48VDC mode)
- Low battery voltage recovery: 21-25VDC for 24VDC mode (42-50VDC for 48VDC mode)
- High battery voltage cutoff: 30VDC for 24VDC mode (60VDC for 48VDC mode)
- High battery voltage recovery: 28.5VDC for 24VDC mode (57VDC for 48VDC mode)
- Idle consumption-search mode: <30W when power saver on

**AC CHARGER**
- Output voltage: Depends on battery type
- Charger AC input breaker rating range: 40A, 50A, 60A, 80A, 80A
- Overcharge protection S.D: 31.4VDC for 24VDC mode (62.8VDC for 48VDC mode)
- Maximum charge current range: 80A, 60A, 100A, 80A, 100A, 120A, 140A

**BTS**
- Continuous output power: Yes
- Variance in charging voltage & S.D. voltage based on the battery temperature

**MECHANICAL SPECIFICATIONS**
- Mounting: Wall mount
- Dimensions (W"H"D): 620"385"215mm, 670"410"215mm
- Shipping dimensions (W"H"D): 755"515"455mm, 884"18"433mm
- Shipping weight (Solar CHG): 56, 61, 64, 82.5, 89.5, 92.5

**OTHER**
- Operation temperature range: 0°C to 40°C
- Storage temperature: -15°C to 60°C
- Audible noise: 60dB MAX
- Display: LED+LCD
- Loading (20GP/40GP/40HQ): 140pcs / 280pcs / 320pcs