

# Low Frequency Solar Inverter

## PV3500 PRO Series (8KW-12KW)



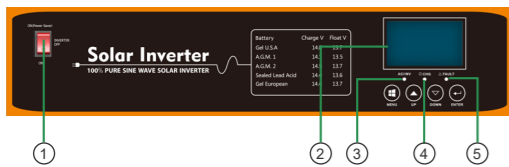
### Features

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

### Introduction

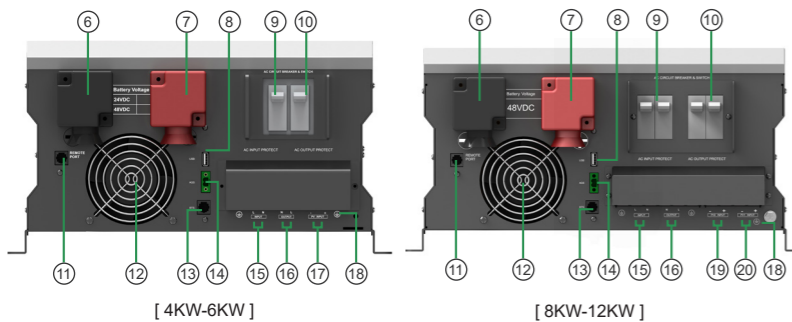
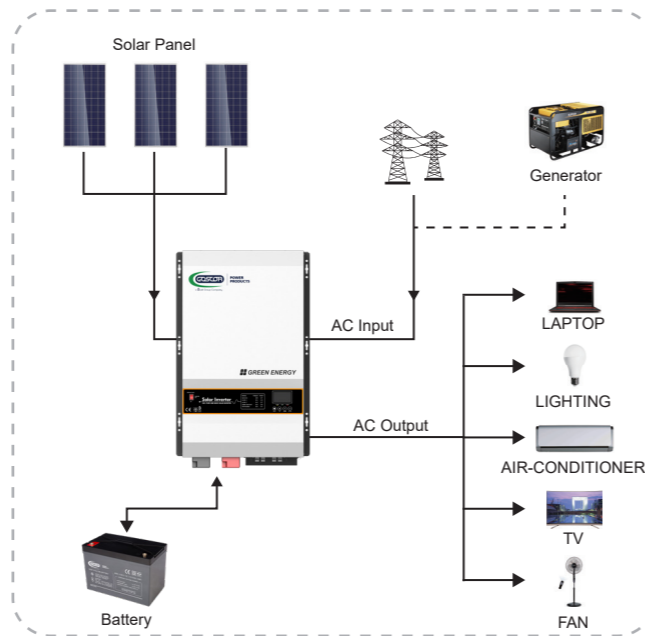
PV3500 PRO series is a multi-function inverter ,combining functions of inverter and MPPT solar charger controller, solar charger and battery charger to offer uninterruptible power support. The comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging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

### Back panel printing description



- |                                |                          |
|--------------------------------|--------------------------|
| 1. Switch ON/OFF               | 11. Remote control port  |
| 2. LCD display                 | 12. Fan                  |
| 3. AC/Inverter indicator       | 13. BTS                  |
| 4. Charging indicator          | 14. AGS                  |
| 5. Fault indicator             | 15. AC input             |
| 6. BAT-                        | 16. AC output            |
| 7. BAT+                        | 17. PV input             |
| 8. WIFI/USB communication port | 18. Ground               |
| 9. AC input/Bypass breaker     | 19. PV2 input (optional) |
| 10. AC output breaker          | 20. PV1 input            |

### Solar system connection



### Specification

| MODEL                          | PV35 PRO-8K                           | PV35 PRO-10K   | PV35 PRO-12K |           |
|--------------------------------|---------------------------------------|--|--------------|-----------|
| Nominal Battery System Voltage |                                       |  |              |           |
|                                | 48VDC                                 | 48VDC  | 48VDC        |           |
| INVERTER OUTPUT                | Rated power                           | 8.0KW  | 10.0KW       |           |
|                                | Surge rating                          | 24000VA  | 30000VA      |           |
|                                | Capable of starting electric motor    | 4HP  | 5HP          |           |
|                                | 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)             | >88%   |              |           |
|                                | Line mode efficiency                  | >95%   |              |           |
|                                | Power factor                          | 1.0  |              |           |
|                                | Typical transfer time                 | 20ms(max)  |              |           |
| AC INPUT                       | Voltage                               | 230VAC   |              |           |
|                                | Selectable voltage range              | 90-280 VAC (APL)   |              |           |
|                                | Frequency range                       | 50Hz / 60Hz  |              |           |
| BATTERY                        | Low battery voltage cutoff            | 40-48VDC for 48VDC mode  |              |           |
|                                | Low battery voltage recover           | 42-50VDC for 48VDC mode  |              |           |
|                                | High battery voltage cutoff           | 60VDC for 48VDC mode   |              |           |
|                                | High battery voltage recover          | 57VDC for 48VDC mode   |              |           |
|                                | Idle consumption-search mode          | <80W when power saver on   |              |           |
| AC CHARGER                     | Output voltage                        | Depends on battery type  |              |           |
|                                | Charger AC input breaker rating       | 80A  | 100A         | 100A      |
|                                | Overcharge protection S.D.            | 62.8VDC for 48VDC mode   |              |           |
|                                | Maximum charge current                | 100A   | 120A         | 140A      |
| BTS                            | Continuous output power               | Yes Variances in charging voltage & S.D. voltage base on the battery temperature |              |           |
| 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                 | 80A  | 100A         | 100A      |
|                                | Max bypass current                    | 36A  | 45A          | 54.5A     |
| SOLAR CHARGER                  | Maximum PV charge current             | 100A(200A optional)  |              |           |
|                                | DC voltage                            | 48V  |              |           |
|                                | Maximim PV array power                | 5000W(10000W for 200A optional)  |              |           |
|                                | MPPT range @ operating voltage(VDC)   | 60-230VDC  |              |           |
|                                | Maximum PV array open circuit voltage | 250VDC   |              |           |
|                                | Maximum efficiency                    | >98%   |              |           |
|                                | Standby power consumption             | <2W  |              |           |
|                                | MECHANICAL SPECIFICATIONS             | Mounting   | Wall mount   |           |
|                                | Dimensions (W*H*D)                    | 674*402*222mm  |              |           |
|                                | Net weight (solar CHG) (kg)           | 69+2.5   | 75.75+2.5    | 75.75+2.5 |
|                                | Shipping dimensions (W*H*D)           | 884*618*443mm  |              |           |
|                                | Shipping weight (Solar CHG) (kg)      | 82.5+2.5   | 89+2.5       | 92+2.5    |
| 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   |              |           |

The technical specifications of this document are subject to change without any notice

### Goscor Power Products (Pty) Ltd

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