

# PORTABLE SOLAR POWER SYSTEM

-- PSS Series (150W~1000W)

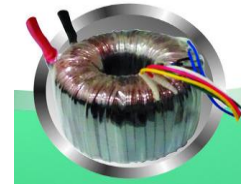


## KEY FEATURES

- ★ MPPT Solar Charger Controller with efficiency >99%
- ★ Power 300% surge power
- ★ High Charge Current, 3 stage battery charger
- ★ Pure Sine Wave with low harmonic distortion
- ★ CRGO toroidal transformer, lower static loss, higher efficiency
- ★ 32 bit high speed CPU control with accurate detection
- ★ Auto switch between AC and PV.
- ★ Integrated design with built-in batteries, portable and easy to install.



## SYSTEM DIAGRAM:



CRGO Toroidal Transformer



32bit High Speed CPU Control

## PRODUCT PICTURES:



## TYPICAL APPLICATIONS:

| MODEL NO. | CAPACITY | RATED POWER | TYPICAL APPLICATIONS                                    |
|-----------|----------|-------------|---------------------------------------------------------|
| PSS-300   | 300VA    | 150W        | Lightings, Fan, LED TV, Laptop                          |
| PSS-500   | 500VA    | 300W        | Lightings, Fan, LED TV, Laptop, electric cooker         |
| PSS-800   | 800VA    | 500W        | Lightings, Fan, LED TV, Laptop, electric cooker, fridge |
| PSS-1500  | 1500VA   | 1000W       | Lightings, Fan, LED TV, Laptop, electric cooker, fridge |



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## TECHNICAL SPECIFICATIONS

| MODEL NO.           |                                                                                                | PSS-300                                                      | PSS-500                                               | PSS-800        | PSS-1500       |  |
|---------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------|----------------|----------------|--|
| SYSTEM              | System Capacity                                                                                | 300VA                                                        | 500VA                                                 | 800VA          | 1500VA         |  |
|                     | Rated Power                                                                                    | 150W                                                         | 300W                                                  | 500W           | 1000W          |  |
|                     | Battery Bank Voltage                                                                           | 12V                                                          |                                                       |                | 24V            |  |
|                     | Full Charge Time                                                                               | 6hrs                                                         | 6hrs                                                  | 5hrs           | 5hrs           |  |
|                     | Discharge Time (normal load)                                                                   | 12hrs                                                        |                                                       |                |                |  |
|                     | Discharge Time (full load)                                                                     | 3hrs                                                         |                                                       |                |                |  |
|                     | DC Output                                                                                      | 12Vdcx1Ax4+5V USBx2Ax2                                       |                                                       |                |                |  |
|                     | AC Output                                                                                      | AC Socketsx2/ 50Hz or 60Hz/ Voltage optional at 100~240Vac   |                                                       |                |                |  |
| SOLAR PV            | Voltage/Power                                                                                  | 18V/90Wpx1pcs                                                | 18V/180Wpx1pcs                                        | 18V/150Wpx2pcs | 36V/300Wpx2pcs |  |
|                     | Type                                                                                           | High efficiency polycrystalline PV/ monocrystalline optional |                                                       |                |                |  |
| BATTERY             | Voltage/Capacity                                                                               | 12V/40Ahx1pcs                                                | 12V/80Ahx1pcs                                         | 12V/120Ahx1pcs | 12V/120Ahx2pcs |  |
|                     | Type                                                                                           | Maintenance-free lead-acid battery/ Gel batteries optional   |                                                       |                |                |  |
|                     | Battery Cabinet                                                                                | Integrated battery cabinet, portable with wheels             |                                                       |                |                |  |
| SOLAR CHARGER       | Input Vol. Rage                                                                                | 15~50Vdc                                                     |                                                       |                | 30~50Vdc       |  |
|                     | Max. Charge Current                                                                            | 10A                                                          | 20A                                                   | 30A            | 30A            |  |
|                     | Controller Efficiency                                                                          | 99%                                                          |                                                       |                |                |  |
|                     | Type                                                                                           | MPPT- Max Power Point Tracking                               |                                                       |                |                |  |
| INVERTER            | Rated Power                                                                                    | 300VA/ 150W                                                  | 500VA/300W                                            | 800VA/ 500W    | 1500VA/ 1000W  |  |
|                     | Transformer                                                                                    | CRGO Toroidal Transformer                                    |                                                       |                |                |  |
|                     | Displayer                                                                                      | LED Graphic Displayer with working/ loading/ battery status  |                                                       |                |                |  |
|                     | DC Output                                                                                      | 12Vdcx1Ax4+5V USBx2Ax2                                       |                                                       |                |                |  |
|                     | AC Output                                                                                      | Voltage                                                      | Customized at 100~240Vac±1% depends on the main power |                |                |  |
|                     |                                                                                                | Frequency                                                    | 50/60Hz±0.3Hz self adaptive                           |                |                |  |
|                     |                                                                                                | Wave Form                                                    | Pure Sine Wave                                        |                |                |  |
|                     |                                                                                                | Wave Distortion                                              | <3%                                                   |                |                |  |
| AC Iutput           | Voltage                                                                                        | 140~275 Vac                                                  |                                                       |                |                |  |
|                     | Frequency                                                                                      | 45~65 Hz                                                     |                                                       |                |                |  |
| PROTECTION          | Overload, high temperature, output high/low voltage,short circuit, over-charge, over-discharge |                                                              |                                                       |                |                |  |
| PV~AC TRANSFER TIME | Typical at 4ms, Max within 6ms                                                                 |                                                              |                                                       |                |                |  |
| COOLING SYSTEM      | Fans                                                                                           |                                                              |                                                       |                |                |  |
| WORKING TEMPERATURE | 0~40 °C                                                                                        |                                                              |                                                       |                |                |  |
| WORKING HUMIDITY    | 10~90% RH, non-condensing                                                                      |                                                              |                                                       |                |                |  |

### CUSTOMIZED OPTIONALS:

- ★ Monocrystalline solar panel available as optional.
- ★ Solar PV power and battery capacity can be customized depends on requirements.
- ★ Customized sockets and output voltage available depends on market requirements.