

# HYBRID SOLAR INVERTER, EU STANDARD

EU STANDARD



Pure Sine Wave Solar Inverter

Runs Without Battery

Lithium Battery Auto-Activation

WiFi & GPRS Monitoring

Built-in MPPT Solar Controller

Wide Voltage Input

Built-in Anti-Dust Kit

Smart Battery Charge Optimization

## Datasheet

| Model                               | 1.5KW                                                                      | 3.6KW                     | 4.2KW                     | 5.5KW                     | 5KWBG                     | 6.2KW                     | 6.2KWBG                   | 13.2KW                |
|-------------------------------------|----------------------------------------------------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|-----------------------|
| AC INPUT                            |                                                                            |                           |                           |                           |                           |                           |                           |                       |
| Rated Input Voltage (VAC)           | 208/220/230/240±N+PE                                                       |                           |                           |                           |                           |                           |                           |                       |
| Voltage Range (VAC)                 | 90~280×3 (normal mode) / 170~280×3 (UPS mode)                              |                           |                           |                           |                           |                           |                           |                       |
| Frequency (Hz)                      | 50/60 (Auto Adaptive)                                                      |                           |                           |                           |                           |                           |                           |                       |
| AC OUTPUT                           |                                                                            |                           |                           |                           |                           |                           |                           |                       |
| Rated Capacity (kW)                 | 1.5                                                                        | 3.6                       | 4.2                       | 5.5                       | 5                         | 6.2                       | 6.2                       | 13.2                  |
| Surge Power (kVA)                   | 3.0                                                                        | 7.2                       | 8.4                       | 11                        | 10                        | 12                        | 12                        | 26.4                  |
| Voltage (VAC)                       | 208/220/230/240                                                            |                           |                           |                           |                           |                           |                           |                       |
| Power Factor                        | 1                                                                          |                           |                           |                           |                           |                           |                           |                       |
| Frequency                           | 50/60Hz±0.1%                                                               |                           |                           |                           |                           |                           |                           |                       |
| Switch Time (ms)                    | 10 (normal mode) / 10 (UPS mode)                                           |                           |                           |                           |                           |                           |                           |                       |
| Wave Form                           | Pure Sine Wave                                                             |                           |                           |                           |                           |                           |                           |                       |
| Overload Capacity (Battery Mode)    | 60s@102%-110% load; 10s@110%-130% load; 3s@130%-150% load; 0.2s@>150% load |                           |                           |                           |                           |                           |                           |                       |
| Max. Efficiency (Battery Mode)      | >90% (12VDC)                                                               | >93% (24VDC)              | >93% (24VDC)              | >93% (48VDC)              | >93% (48VDC)              | >93% (48VDC)              | >93% (48VDC)              | >93% (48VDC)          |
| Parallel Quantity                   | NA                                                                         | NA                        | NA                        | NA                        | 9 Max                     | NA                        | 9 Max                     | 6 Max                 |
| CHARGER (PV / AC)                   |                                                                            |                           |                           |                           |                           |                           |                           |                       |
| Solar Charger Type                  | MPPT                                                                       |                           |                           |                           |                           |                           |                           |                       |
| Max PV Input Current/Power          | 14A/1000W                                                                  | 18A/5000W                 | 18A/5000W                 | 22A/6000W                 | 22A/6000W                 | 22A/6000W                 | 22A/6000W                 | 22A*2 / 5500W*2       |
| MPPT Range@ Operating Voltage (VDC) | 20~160                                                                     | 40~450                    | 40~450                    | 120~450                   | 120~450                   | 170~450                   | 120~450                   | 170~450               |
| Max PV Open Circuit Voltage (VDC)   | 125                                                                        | 500                       | 500                       | 500                       | 500                       | 500                       | 500                       | 500                   |
| Max PV Charge Current (A)           | 60                                                                         | 100                       | 100                       | 100                       | 80                        | 100                       | 80                        | 150                   |
| Max AC Charge Current (A)           | 60                                                                         | 100                       | 100                       | 80                        | 80                        | 80                        | 80                        | 150                   |
| Max. Charge Current (PV+AC)(A)      | 120                                                                        | 100                       | 100                       | 100                       | 80                        | 100                       | 80                        | 150                   |
| BATTERY                             |                                                                            |                           |                           |                           |                           |                           |                           |                       |
| Rated Voltage (VDC)                 | 12                                                                         | 24                        | 24                        | 48                        | 48                        | 48                        | 48                        | 48                    |
| Floating Charge Voltage (VDC)       | 13.5                                                                       | 27                        | 27                        | 54                        | 54                        | 54                        | 54                        | 54                    |
| Overcharge Protection (VDC)         | 15                                                                         | 30.5                      | 30.5                      | 61                        | 61                        | 61                        | 61                        | 60                    |
| Battery Type                        | Lithium and Lead-acid                                                      |                           |                           |                           |                           |                           |                           |                       |
| INTERFACE                           |                                                                            |                           |                           |                           |                           |                           |                           |                       |
| MMI                                 | LCD                                                                        |                           |                           |                           |                           |                           |                           |                       |
| Interface                           | RS485/USB                                                                  | RS485/232/USB/Dry Contact | RS485/232/USB/Dry Contact | RS485/232/USB/Dry Contact | RS485/232/USB/Dry Contact | RS485/232/USB/Dry Contact | RS485/232/USB/Dry Contact | RS485/USB Dry Contact |
| Monitoring                          | NA                                                                         | WiFi (Optional)           | WiFi (Optional)           | WiFi (Optional)           | WiFi (Optional)           | WiFi (Optional)           | WiFi (Optional)           | WiFi (Optional)       |
| GENERAL DATA                        |                                                                            |                           |                           |                           |                           |                           |                           |                       |
| Ingress Protection                  | IP20                                                                       |                           |                           |                           |                           |                           |                           |                       |
| Operating Temperature               | -10°C~50°C                                                                 |                           |                           |                           |                           |                           |                           |                       |
| Relative Humidity                   | 5%-95% (Non-condensing)                                                    |                           |                           |                           |                           |                           |                           |                       |
| Storage Temperature                 | -10°C~50°C                                                                 | -15°C~60°C                | -10°C~50°C                | -15°C~60°C                | -10°C~50°C                | -15°C~60°C                | -10°C~50°C                | -25°C~55°C            |
| Net Weight (KG)                     | 3.54                                                                       | 6.25                      | 6.25                      | 8.73                      | 8.73                      | 8.73                      | 8.73                      | 20                    |
| Dimensions (WHD mm)                 | 334.5*324*91                                                               | 440*290*100               | 440*290*100               | 470*300*110               | 470*300*110               | 470*300*110               | 470*300*110               | 550*365*130           |
| Max Operating Altitude              | 4000m (Derating above 1000m)                                               |                           |                           |                           |                           |                           |                           |                       |

\* If the ambient temperature is too high or too low, performance will be limited.

\* Under specific test conditions.