

# HYBRID SOLAR INVERTER

Galaxy 6G EU 5kw-48V Dual MPPT Single Phase



₹108,927.68 Exl GST



LCD Screen, IP65 Protection degree

16

Max. 16pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel

120

Max. charging/discharging current of 120A

6

6 time periods for battery charging/discharging



Support storing energy from diesel generator



Maximum DC input power 8000W



Max AC Input/Output Apparent Power 5500



5 years warranty

| Model                                             | Galaxy 6G EU 5kw-48V Single Phase Hybrid Inverter                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Battery Input Data</b>                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Battery Type                                      | Lead-acid or Lithium-ion                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Battery Voltage Range (V)                         | 40~60                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Max. Charging Current (A)                         | 120                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Max. Discharging Current (A)                      | 120                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Number of Battery Input                           | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Charging Strategy for Li-Ion Battery              | Self-adaption to BMS                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>PV String Input Data</b>                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Max. DC Input Power (W)                           | 8000                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Max. PV Input Voltage (V)                         | 500                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Start-up Voltage (V)                              | 125                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| MPPT Voltage Range (V)                            | 150-425V                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Rated PV Input Voltage (V)                        | 370                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Max. Operating PV Input Current (A)               | 13+13                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Max. Input Short-Circuit Current (A)              | 17+17                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| No.of MPP Trackers                                | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| No.of Strings per MPP Tracker                     | 1+1                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>AC Input/Output Data</b>                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Rated AC Input/Output Active Power (W)            | 5000                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Max. AC Input/Output Apparent Power (VA)          | 5500                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Rated AC Input/Output Current (A)                 | 22.7/21.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Max. AC Input/Output Current (A)                  | 25/23.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Max. Continuous AC Passthrough (grid to load) (A) | 35A                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Peak Power (off grid)                             | 2 time of rated power, 10 S                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Power Factor Adjustment Range                     | 0.8 leading to 0.8 lagging                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Rated Input/Output Voltage/Range (V)              | 220/230 0.85Un-1.1Un                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Rated Input/Output Grid Frequency/Range(Hz)       | 50/45-55, 60/55-65                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Grid Connection Form                              | L+N+PE                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Total Current Harmonic Distortion THDi            | <3% (of nominal power)                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| DC Injection Current                              | <0.5% In                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Efficiency</b>                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Max. Efficiency                                   | 97.6%                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Euro Efficiency                                   | 96.5%                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| MPPT Efficiency                                   | >99%                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Equipment Protection</b>                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Integrated                                        | DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection<br>AC Output Overvoltage Protection, AC Output Short Circuit Protection, Thermal Protection<br>DC Terminal Insulation Impedance Monitoring, DC Component Monitoring, Ground Fault Current Monitoring Power<br>Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch Overvoltage Load Drop<br>Protection, Residual Current (RCD) Detection, Surge protection level |
| Surge Protection Level                            | TYPE II(DC), TYPE II(AC)                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Interface</b>                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Communication Interface                           | RS485/RS232/CAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Monitor Mode                                      | GPRS/WIFI/Bluetooth/4G/LAN(optional)                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>General Data</b>                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Operating Temperature Range (°C)                  | -40 to +60°C, >45°C Derating                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Permissible Ambient Humidity                      | 0-100%                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Permissible Altitude                              | 2000m                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Inverter Topology                                 | Non-Isolated                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Over Voltage Category                             | OVC II(DC), OVC III(AC)                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Type of Cooling                                   | Natural Cooling                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Noise (dB)                                        | <30                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Communication with BMS                            | RS485; CAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Weight (kg)                                       | 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Cabinet Size (WxHxD mm)                           | 330×433×229 (Excluding Connectors and Brackets)                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Ingress Protection(IP) Rating                     | IP65                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Installation Style                                | Wall-mounted                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Grid Regulation                                   | IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105                                                                                                                                                                                                                                                                                                                                                                    |
| Safety / EMC Standard                             | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Warranty                                          | 5 Years/10 Years<br>the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy                                                                                                                                                                                                                                                                                                                                               |