



BlueWave 5-15T

Grid-tied PV Inverter



Smart and User Friendly

- Supports remote monitoring and local configuration
- Remote OTA, intelligent upgrade



Efficient Power Generation

- String current up to 20A, compatible with high-power PV panels
- Optimal Energy Efficiency and Performance



High Reliability

- Integrated with film capacitor for longer lifespan
- IP66 design for outdoor installation
- No power derating during operation at 45°C

| Datasheet | 5T | 6T | 8T | 10T | 12T | 13T | 15T |
|------------------------------------|------------------------------------|-------|-------|-------|-------|-------|-------|
| PV Input | | | | | | | |
| Max.Input Voltage(V) | 1100 | | | | | | |
| MPPT Voltage Range(V) | 140V-1000 | | | | | | |
| Start-up Voltage(V) | 160 | | | | | | |
| Rated Input Voltage(V) | 630 | | | | | | |
| Number of MPPTs | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Number of Strings per MPPT | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 |
| Max.Operating PVInput Current(A) | 20/20 | 20/20 | 20/20 | 20/20 | 20/20 | 20/20 | 20/20 |
| Max.Input Short Circuit Current(A) | 30/30 | 30/30 | 30/30 | 30/30 | 30/30 | 30/30 | 30/30 |
| AC Output | | | | | | | |
| Nominal Output Power(kW) | 5 | 6 | 8 | 10 | 12 | 13 | 15 |
| Max.AC Active Power(kW) | 5.5 | 6.6 | 8.8 | 11 | 13.2 | 14.3 | 16.5 |
| Max.AC Apparent Power(kVA) | 5.5 | 6.6 | 8.8 | 11 | 13.2 | 14.3 | 16.5 |
| Nominal AC Voltage(V) | 220/380, 230/400 | | | | | | |
| AC Grid Frequency(Hz) | 50/60 | | | | | | |
| Max.Output Current(A) | 8 | 9.5 | 12.7 | 15.8 | 19 | 20.6 | 23.8 |
| Power Factor | >0.99(0.8leading-0.8lagging) | | | | | | |
| THDi | <3% | | | | | | |
| AC Grid Connection Type | 3L+N+PE,3L+PE | | | | | | |
| Efficiency | | | | | | | |
| Max.Efficiency | 98.6% | | | | | | |
| Protection | | | | | | | |
| PV String Current Monitoring | Integrated | | | | | | |
| PV Insulation Resistance Detection | Integrated | | | | | | |
| Residual Current Monitoring | Integrated | | | | | | |
| PV Reverse Polarity Protection | Integrated | | | | | | |
| Anti-islanding Protection | Integrated | | | | | | |
| AC Overcurrent Protection | Integrated | | | | | | |
| AC Short Circuit Protection | Integrated | | | | | | |
| AC Overvoltage Protection | Integrated | | | | | | |
| DC Switch | Integrated | | | | | | |
| DC Surge Protection | TypeIII(Type II Optional) | | | | | | |
| AC Surge Protection | TypeIII(Type II Optional) | | | | | | |
| General Data | | | | | | | |
| Operating Temperature Range | -30°C-60°C(>45°C Derating) | | | | | | |
| Ingress Protection(IP)Rating | IP66 | | | | | | |
| Relative Humidity | 0-100% | | | | | | |
| Max.Operating Altitude | 3000m | | | | | | |
| Cooling Method | Smart Fan Cooling | | | | | | |
| User Interface | LED+Bluetooth+APP | | | | | | |
| Communication | RS485/4G/WiFi | | | | | | |
| Weight | 13.5 | 13.5 | 15 | 15 | 15 | 15 | 15.6 |
| Dimension(W*H*D)(mm) | 425*380*200.5 | | | | | | |
| Topology | Transformerless | | | | | | |
| Self-consumption at Night | <1W | | | | | | |
| Display | WiFi+APP | | | | | | |
| Interface(USB/RS485/WiFi/4G/Lan/) | Yes/Yes/Optional/Optional/Optional | | | | | | |
| Warranty(5/10years) | Yes/Optional | | | | | | |