# HYBRID SOLAR INVERTER/SINGLE PHASE

## HYPEC-3KW/6KW






- Parallel Operation Up to 6 Units
- MPPT 50-500Vdc(6KW)
- 2 Independent AC Inputs 2 Outputs
- High Efficiency Max.98%
- Wi-Fi
- Maximize PV Input Power(2 MPPTs)
- CT Current Transformer
- Touchscreen

| MODEL | HYPEC-3KW | HYPEC-6KW |
|---|---|---|
| PHASE | 1-phase in /1-phase out | |
| MAXIMUM PV INPUT POWER | 4500W | 4500W+4500W |
| RATED OUTPUT POWER | 3000W | 6000W |
| MAXIMUM CHARGING POWER | 3000W | 6000W |
| **GRID-TIED OPERATION** | | |
| PV INPUT(DC) | | |
| Maximum DC Voltage | / | 520Vdc |
| Start-up Voltage /Initial Feeding Voltage | / | 90Vdc/120Vdc |
| MPPT Voltage Range | / | 50Vdc-500Vdc |
| Number of MPPT Trackers /Maximum Input Current | / | 2/18A |
| GRID OUTPUT(AC) | | |
| Nominal Output Voltage | / | 220/230/240VAC |
| Output Voltage Range | / | 184-264.5 VAC or 195.5-253 VAC or 184-264.4 VAC(Selectable) |
| Nominal Output Current | / | 26.1A |
| Power Factor | / | >0.99 |
| EFFICIENCY | | |
| Maximum Conversion Efficiency(DC/AC) | / | 97% |
| **OFF-GRID OPERATION** | | |
| AC INPUT | | |
| AC Start-up Voltage | 170VAC-280 VAC | |
| Acceptable Input Voltage Range | 90-280 VAC | |
| Frequency Range | 50 Hz/60 Hz(Auto sensing) | |
| Maximum AC Input Current | 16A | 40A |
| PV INPUT(DC) | | |
| Maximum DC Voltage | 500Vdc | 520Vdc |
| MPPT Voltage Range | 60Vdc-450Vdc | 50Vdc-500Vdc |
| Number of MPPT Trackers/Maximum Input Current | 1/18A | 2/18A |
| BATTERY MODE OUTPUT(AC) | | |
| Nominal Output Voltage | 220/230/240VAC | |
| Output Waveform | Pure sine wave | |
| Efficiency (DC to AC) | 93% | |
| **HYBRID OPERATION** | | |
| PV INPUT(DC) | | |
| Maximum DC Voltage | 500Vdc | 520Vdc |
| Start-up Voltage/Initial Feeding Voltage | 90Vdc/120Vdc | |
| MPPT Voltage Range | 60Vdc-450Vdc | 50Vdc-500Vdc |
| Number of MPPT Trackers/Maximum Input Current | 1/18A | 2/18A |
| GRID OUTPUT(AC) | | |
| Nominal Output Voltage | 220/230/240VAC | |
| Output Voltage Range | 184-264.5 VAC or 195.5-253 VAC or 184-264.4 VAC(Selectable) | |
| Nominal Output Current | 13A | 26.1A |
| AC INPUT | | |
| AC Start-up Voltage | 170VAC-280 VAC | |
| Acceptable Input Voltage Range | 90-280VAC or 170-280 VAC | |
| Maximum AC Input Current | 16A | 40A |
| BATTERY MODE OUTPUT(AC) | | |
| Nominal Output Voltage | 220/230/240VAC | |
| Efficiency (DC to AC) | 93% | |
| BATTERY & CHARGER | | |
| Nominal DC Voltage | 24Vdc | 48Vdc |
| Maximum Solar Charging Current | 100A | 125A |
| Maximum AC Charging Current | 100A | 125A |
| Maximum Charging Current | 100A | 125A |
| **GENERAL** | | |
| PHYSICAL | | |
| Dimension, D x W x H(mm) | 451x353x160.2 | 471x444x200 |
| Net Weight (kg) | 12.3 | 18.5 |
| INTERFACE | | |
| Parallel Function | / | Yes, 6 units |
| Communication Port | RS232/RS485/Wi-Fi | RS485/CAN/Wi-Fi/Dry contact |
| ENVIRONMENT | | |
| Humidity | 5% to 95% Relative Humidity(Non-condensing) | |
| IP degree | IP65 | |
| Operating Temperature | -10°C~50°C | |
| Storage Temperature | -15°C~60°C | |