

# POWER THE FUTURE !



## Smart SOLAR HYBRID INVERTER 8KW/10KW IP66-3PHASE

### SALIENT FEATURES

- ✓ IP66 certified enclosure.
- ✓ 7" Touch Panel colored HMI Display..
- ✓ Lead-Acid or Lithium ion battery Compatible.
- ✓ Dual output for smart load control.
- ✓ Two independent AC power sources connected and switched automatically.
- ✓ Built-in WiFi for mobile monitoring (App is available).
- ✓ 150% unbalanced load support.
- ✓ User-adjustable charging current.
- ✓ Inbuilt RS485 BMS Port for Lithium ion battery.
- ✓ Parallel operation up to 6 units.





### TECHNICAL SPECIFICATIONS

| MODEL                                                                  | SOLAR HYBRID INVERTER 8KW 3PH V32U                                                                                           | SOLAR HYBRID INVERTER 10KW 3PH V32    |
|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| MAX. PV INPUT/RATED OUTPUT/MAX. CHARGER POWER                          | 12000W / 8000W / 8000W                                                                                                       | 15000W / 10000W / 10000W              |
| GRID-TIE OPERATION                                                     |                                                                                                                              |                                       |
| PV INPUT (DC)                                                          |                                                                                                                              |                                       |
| Nominal DC Voltage / Maximum DC Voltage                                | 720 VDC / 900 VDC                                                                                                            |                                       |
| Start-up Voltage / Initial Feeding Voltage                             | 150 VDC / 150 VDC                                                                                                            |                                       |
| MPP Voltage Range / Full MPP Voltage Range                             | 150 ~ 850VDC / 400 ~ 850VDC                                                                                                  | 150 ~ 850VDC / 420 ~ 850VDC           |
| Number of MPP Trackers / Maxium Input Current                          | 2 / A: 18A, B: 18A                                                                                                           | 2 / A: 18A, B: 18A                    |
| Number of Strings Per MPP Tracker                                      | A: 2, B: 2                                                                                                                   | A: 2, B: 2                            |
| GRID/UTILITY OUTPUT (AC)                                               |                                                                                                                              |                                       |
| Nominal Output Voltage                                                 | 230VAC (P-N) / 400VAC (P-P)                                                                                                  | 230VAC (P-N) / 400VAC (P-P)           |
| Output Voltage Range                                                   | 184 ~ 265 VAC* per phase                                                                                                     | 184 ~ 265 VAC* per phase              |
| Output Frequency Range                                                 | 47.5 ~ 51.5 Hz or 59.3 ~ 60.5 Hz                                                                                             | 47.5 ~ 51.5 Hz or 59.3 ~ 60.5 Hz      |
| Nominal Output Current / Power Factor Range                            | 11.6 A per phase / 0.9 lag ~ 0.9 lead                                                                                        | 14.5 A per phase / 0.9 lag ~ 0.9 lead |
| EFFICIENCY                                                             |                                                                                                                              |                                       |
| Max. Conversion Eff.(DC/AC) / European Eff.@ Vnominal                  | >96% / >95%                                                                                                                  | >96% / >95%                           |
| OFF-GRID OPERATION                                                     |                                                                                                                              |                                       |
| AC INPUT                                                               |                                                                                                                              |                                       |
| AC Start-up Voltage / Auto Restart Voltage                             | 120 ~ 140 VAC per phase / 180 VAC per phase                                                                                  |                                       |
| Acceptable Input Voltage Range / Maximum AC Input Current              | 170 ~ 290 VAC per phase / 40A                                                                                                |                                       |
| PV INPUT (DC)                                                          |                                                                                                                              |                                       |
| Max. DC Voltage / MPP Voltage Range                                    | 900VDC / 150VDC ~ 850VDC                                                                                                     |                                       |
| Full MPP Voltage Range                                                 | 400 VDC ~ 850 VDC                                                                                                            | 420 VDC ~ 850 VDC                     |
| Number of MPP Trackers / Maxium Input Current                          | 2 / A: 18A, B: 18A                                                                                                           | 2 / A: 18A, B: 18A                    |
| Number of Strings Per MPP Tracker                                      | A: 2, B: 2                                                                                                                   | A: 2, B: 2                            |
| BATTERY MODE OUTPUT (AC)                                               |                                                                                                                              |                                       |
| Nominal Output Voltage / Output Frequency                              | 230 VAC (P-N) / 400 VAC (P-P) / 50 Hz / 60 Hz (auto sensing)                                                                 |                                       |
| Output Waveform / Efficiency (DC to AC)                                | Pure Sinewave / >93%                                                                                                         |                                       |
| HYBRID OPERATION                                                       |                                                                                                                              |                                       |
| PV INPUT (DC)                                                          |                                                                                                                              |                                       |
| Nominal DC Voltage / Maximum DC Voltage                                | 720VDC / 900VDC                                                                                                              |                                       |
| Start-up Voltage / Initial Feeding Voltage                             | 150VDC / 150VDC                                                                                                              |                                       |
| MPP Voltage Range / Full MPP Voltage Range                             | 150VDC ~ 850VDC / 400VDC ~ 850VDC                                                                                            |                                       |
| Number of MPP Trackers / Maxium Input Current                          | 2 / A: 18A, B: 18A                                                                                                           | 2 / A: 18A, B: 18A                    |
| Number of Strings Per MPP Tracker                                      | A: 2, B: 2                                                                                                                   | A: 2, B: 2                            |
| GRID/UTILITY OUTPUT (AC)                                               |                                                                                                                              |                                       |
| Nominal Output Voltage / Output Voltage Range                          | 230VAC (P-N) / 400VAC (P-P) / 184 ~ 265VAC* per phase                                                                        |                                       |
| Output Frequency Range                                                 | 47.5 ~ 51.5 Hz or 59.3 ~ 60.5 Hz                                                                                             | 47.5 ~ 51.5 Hz or 59.3 ~ 60.5 Hz      |
| Nominal Output Current / Power Factor Range                            | 11.6 A per ph / 0.9 lag ~ 0.9 lead                                                                                           | 14.5 A per ph / 0.9 lag ~ 0.9 lead    |
| AC INPUT                                                               |                                                                                                                              |                                       |
| AC Start-up Voltage / Auto Restart Voltage                             | 120 ~ 140 VAC per phase / 180 VAC per phase                                                                                  |                                       |
| Acceptable Input Voltage Range / Maximum AC Input Current              | 170 ~ 290 VAC per phase / 40A                                                                                                |                                       |
| BATTERY MODE OUTPUT (AC)                                               |                                                                                                                              |                                       |
| Nominal Output Voltage / Output Frequency                              | 230 VAC (P-N) / 400 VAC (P-P) / 50 Hz / 60 Hz (auto sensing)                                                                 |                                       |
| Output Waveform / Max. Discharging Current / Eff. (DC to AC)           | Pure sine wave / 200A / >93%                                                                                                 |                                       |
| BATTERY & CHARGER                                                      |                                                                                                                              |                                       |
| Battery Voltage Range / Maximum Charging Current                       | 40 ~ 60 VDC / 160 A                                                                                                          | 40 ~ 60 VDC / 200 A                   |
| GENERAL (PHYSICAL / INTERFACE / ENVIRONMENT / COMPLIES WITH STANDARDS) |                                                                                                                              |                                       |
| Dimension, D X W X H (mm) / Net Weight (kgs)                           | 247 x 500 x 650 / 50Kgs.                                                                                                     |                                       |
| Communication Port / Intelligent Slot                                  | RS-232, RS-485, USB, CAN and Wi-Fi / Optional for SNMP and Modbus cards                                                      |                                       |
| Humidity / Operating Temperature / Altitude                            | 0~100% RH (Non-Cond.) / -25 to 50°C > 45°C power derating / 0~1000m**                                                        |                                       |
| Safety                                                                 | IEC 62116, IEC 61727, IEC 61683, IEC 62109, IEC 61000-6-2:2019, IEC 61000-6-4:2019, IEC 61000-3-11:2019, EN 61000-3-12: 2011 |                                       |
| Grid Connection Standard                                               | EN 50549-1, VDE-AR-N4105                                                                                                     |                                       |

\*These figures are based on VDE-4105 standard. All figures may vary depending on different AC voltage and country requirements. \*\* Power derating 1% every 100 m when altitude is over 1000m  
NOTE: Because of a policy of continuous product improvement, the specifications are subject to change without notice.