



# HYBRID

| TECHNICAL DATA                     |  | 5000H  | 8000H         | 10000H        |
|------------------------------------|--|--|---------------|---------------|
| Battery Input Data                 | Battery Type                                       | Li-Ion   |               |               |
|                                    | Battery Voltage Range (V)                          | 180~600  |               |               |
|                                    | Max. Charging Current (A)                          | 25   |               |               |
|                                    | Max. Discharging Current (A)                       | 25   |               |               |
|                                    | Charging Strategy for Li-Ion Battery               | Self-adaption to BMS   |               |               |
| PV String Input Data               | <b>Max. DC Input Power (W)</b>                     | <b>6500</b>  | <b>9600</b>   | <b>13000</b>  |
|                                    | Max. DC Input Voltage (V)                          | 1000   |               |               |
|                                    | MPPT Range (V)                                     | 200~850  |               |               |
|                                    | Start-up Voltage (V)                               | 180  |               |               |
|                                    | MPPT Range for Full Load (V)                       | 240~850  | 380~850       | 460~850       |
|                                    | Nominal DC Input Voltage (V)                       | 620  |               |               |
|                                    | Max. Input Current (A)                             | 12.5 / 12.5  |               |               |
|                                    | Max. Short Current (A)                             | 15.2 / 15.2  |               |               |
|                                    | No. of MPP Trackers                                | 2  |               |               |
|                                    | No. of Strings per MPP Tracker                     | 1 / 1  |               |               |
| AC Output Data (On-grid)           | Nominal Apparent Power Output to Utility Grid (VA) | 5000   | 8000          | 10000         |
|                                    | Max. Apparent Power Output to Utility Grid (VA)    | 5500   | 8800          | 11000         |
|                                    | Max. Apparent Power from Utility Grid (VA)         | 10000  | 15000         | 15000         |
|                                    | Nominal Output Voltage (V)                         | 400/380, 3L / N / PE   |               |               |
|                                    | Nominal Output Frequency (Hz)                      | 50 / 60  |               |               |
|                                    | Max. AC Current Output to Utility Grid (A)         | 8.5  | 13.5          | 16.5          |
|                                    | Max. AC Current from Utility Grid (A)              | 15.2   | 22.7          | 22.7          |
|                                    | Output Power Factor                                | ~1 (Adjustable from 0.8 leading to 0.8 lagging)  |               |               |
| AC Output Data (Back-up; Optional) | Output THDi (@Nominal Output)                      | <3%  |               |               |
|                                    | Max. Output Apparent Power (VA)                    | 5000   | 8000          | 10000         |
|                                    | Peak Output Apparent Power (VA)                    | 10000, 60 sec  | 16000, 60 sec | 16500, 60 sec |
|                                    | Max. Output Current (A)                            | 8.5  | 13.5          | 16.5          |
|                                    | Nominal Output Voltage (V)                         | 400 / 380  |               |               |
|                                    | Nominal Output Frequency (Hz)                      | 50 / 60  |               |               |
| Efficiency                         | Output THDv (@Linear Load)                         | <3%  |               |               |
|                                    | Max. Efficiency                                    | 98.0%  | 98.2%         | 98.2%         |
|                                    | Max. Battery to Load Efficiency                    | 97.5%  |               |               |
| Protection                         | European Efficiency                                | 97.2%  | 97.5%         | 97.5%         |
|                                    | Anti-Islanding Protection                          | Integrated   |               |               |
|                                    | PV String Input Reverse Polarity Protection        | Integrated   |               |               |
|                                    | Insulation Resistor Detection                      | Integrated   |               |               |
|                                    | Residual Current Monitoring Unit                   | Integrated   |               |               |
|                                    | Output Over Current Protection                     | Integrated   |               |               |
|                                    | Output Short Protection                            | Integrated   |               |               |
| General Data                       | Battery Input Reverse Polarity Protection          | Integrated   |               |               |
|                                    | Output Over Voltage Protection                     | Integrated   |               |               |
|                                    | Operating Temperature Range (°C)                   | -35~60   |               |               |
|                                    | Relative Humidity                                  | 0~95%  |               |               |
|                                    | Operating Altitude (m)                             | ≤4000  |               |               |
|                                    | Cooling  | Nature Convection  |               |               |
|                                    | Noise (dB)   | <30  |               |               |
|                                    | User Interface                                     | LED & APP  |               |               |
|                                    | Communication with BMS                             | RS485; CAN   |               |               |
|                                    | Communication with Meter                           | RS485  |               |               |
|                                    | Communication with EMS                             | RS485 (Insulated)  |               |               |
|                                    | Communication with Portal                          | Wi-Fi  |               |               |
|                                    | Weight (kg)  | 24   |               |               |
|                                    | Size (Width*Height*Depth mm)                       | 516*415*180  |               |               |
|                                    | Mounting   | Wall Bracket   |               |               |
|                                    | Protection Degree                                  | IP65   |               |               |
|                                    | Standby Self-Consumption (W)                       | <15  |               |               |
| Topology                           | Transformerless                                    |  |               |               |
| Standards                          | Grid Regulation                                    | CEI 0-21; VDE4105-AR-N; VDE0126-1-1; EN50438; G83/2; G100                                    |               |               |
|                                    | Safety Regulation                                  | IEC62109-1&-2, IEC62040-1  |               |               |
|                                    | EMC  | EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN61000-4-16, EN61000-4-18, EN61000-4-29 |               |               |