

|                                        |  |                                                        |
|----------------------------------------|--|--------------------------------------------------------|
| <b>PV INPUT</b>                        |  |                                                        |
| MAX. PV access power                   |  | 12000W                                                 |
| Max. PV input power                    |  | 9kW                                                    |
| Max. input voltage                     |  | 550V                                                   |
| Rated PV input voltage                 |  | 360V                                                   |
| Start-up voltage                       |  | 60V                                                    |
| MPPT voltage range                     |  | 90-450V                                                |
| Max. PV input current                  |  | 20A/20A                                                |
| Max. short circuit current             |  | 30A/30A                                                |
| MPPT number/Max. input strings number  |  | 2/2                                                    |
| <b>BATTERY</b>                         |  |                                                        |
| Battery type                           |  | Lead-acid or Li-ion                                    |
| Rated battery voltage                  |  | 48V                                                    |
| Battery voltage range                  |  | 40-60V                                                 |
| Max. charge / discharge current        |  | 135A/135A                                              |
| Communication                          |  | CAN/RS485                                              |
| Charging strategy for Li-ion battery   |  | Self-adaption to BMS                                   |
| <b>AC OUTPUT</b>                       |  |                                                        |
| Rated output power                     |  | 6kW                                                    |
| Max. apparent output power             |  | 6.6kVA                                                 |
| Rated output voltage                   |  | 220V/230V,L/N/PE                                       |
| Output voltage range                   |  | 160V-300V                                              |
| Rated output frequency/frequency range |  | 50Hz/60Hz (±5Hz)                                       |
| Rated output current                   |  | 26.1A                                                  |
| Max.output current                     |  | 28.7A                                                  |
| power factor                           |  | >0.99(0.8 leading - 0.8 lagging)                       |
| THDi                                   |  | <3%                                                    |
| <b>AC INPUT</b>                        |  |                                                        |
| Rated input power                      |  | 6kW                                                    |
| Max. input power                       |  | 9.2kW                                                  |
| Rated input voltage                    |  | 220V/230V,L/N/PE                                       |
| Rated input frequency                  |  | 50/60Hz                                                |
| Max. input current                     |  | 40A                                                    |
| <b>BACK-UP OUTPUT</b>                  |  |                                                        |
| Rated output power                     |  | 6kW                                                    |
| Max. output power                      |  | 2 times of rated power, 10 s                           |
| Rated output voltage                   |  | 220V/230V,L/N/PE                                       |
| Rated output frequency                 |  | 50/60Hz                                                |
| Max. output switch time                |  | 28.7A                                                  |
| Back-up switch time                    |  | <4ms                                                   |
| THDv                                   |  | <3%                                                    |
| <b>EFFICIENCY</b>                      |  |                                                        |
| MPPT efficiency                        |  | 99.80%                                                 |
| Max. efficiency                        |  | 97.70%                                                 |
| EU efficiency                          |  | 96.70%                                                 |
| BAT charged/discharged Max efficiency  |  | 95.3% / 93.9%                                          |
| <b>PROTECTION</b>                      |  |                                                        |
| Integrated DC switch                   |  | Yes                                                    |
| DC rever-polarity protection           |  | Yes                                                    |
| Insulation impedance detection         |  | Yes                                                    |
| Residual leakage current detection     |  | Yes                                                    |
| Ground fault monitoring                |  | Yes                                                    |
| Short circuit protection               |  | Yes                                                    |
| Anti-islanding protection              |  | Yes                                                    |
| DC/AC surge protection                 |  | DC:Type II;AC:Type II                                  |
| DC arc-fault circuit protection        |  | Optional                                               |
| I/V curve scanning                     |  | Yes                                                    |
| Parallel connection number of inverter |  | Max.16                                                 |
| <b>GENERAL</b>                         |  |                                                        |
| Operating temperature range            |  | -40 to 60°C                                            |
| Max. operation altitude                |  | 4000m(Derating above 3000m)                            |
| Relative humidity                      |  | 0~100%                                                 |
| Cooling concept                        |  | Smart Fan Cooling                                      |
| Ingress protection                     |  | IP 66                                                  |
| Topology                               |  | Transformerless                                        |
| Self consumption(night)                |  | ≤20W                                                   |
| Dimensions (W*H*D)                     |  | 350*620*260mm                                          |
| Weight                                 |  | 28kg                                                   |
| Type of PV terminal                    |  | MC4 connector                                          |
| Type of PV terminal (Grid side)        |  | Terminal                                               |
| Warranty                               |  | 10 Years*                                              |
| <b>COMMUNICATION</b>                   |  |                                                        |
| Display                                |  | LCD+LED+Bluetooth+APP                                  |
| Communication                          |  | WIFI+Bluetooth,Optional:GPRS,LAN ;BMS:RS485/CAN        |
| <b>CERTIFICATION</b>                   |  |                                                        |
| Grid standards                         |  | IEC 61727/62116,IEC 61683,PEA                          |
| Safety/EMC                             |  | IEC/EN 62109-1/2,IEC/EN 62477-1, EN IEC61000-6-1/2/3/4 |