

# 0.4KV Three Phase Grid-connected PV Inverter SI-13/30K-T2



- LED display, touch button design, direct data view
- Maximum efficiency 98.5%, dual MPPT, more power generation
- Photovoltaic input up to 1100V
- 14A string current, suitable for high current high efficiency module applications
- 150% DC over configuration, 110% AC overload output
- Intelligent fan cooling
- Highly protective design of the shell, resistant to heat and corrosion, 25 years without rusting
- Intelligent remote monitoring
- Support anti-backflow function

| Technical Data                              | SI-13K-T2                                                    | SI-15K-T2 | SI-17K-T2 | SI-20K-T2 | SI-22K-T2  | SI-23K-T2 | SI-25K-T2 | SI-27K-T2 | SI-30K-T2 |
|---------------------------------------------|--------------------------------------------------------------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|
| Input Data                                  |                                                              |           |           |           |            |           |           |           |           |
| Max. DC input power                         | 17000W                                                       | 19500W    | 22000W    | 26000W    | 28600W     | 29900W    | 32500W    | 35000W    | 39000W    |
| Max. DC input voltage                       | 1100V                                                        |           |           |           | 1100V      |           |           |           |           |
| Operation voltage range                     | 200V-1000V                                                   |           |           |           | 200V-1000V |           |           |           |           |
| Number of independent MPPT/strings per MPPT | 2/1+2                                                        | 2/1+2     | 2/1+2     | 2/2+2     | 2/2+2      | 2/2+2     | 2/2+2     | 2/2+3     | 2/2+3     |
| MPPT max. Current                           | 14A/28A                                                      | 14A/28A   | 14A/28A   | 28A/28A   | 28A/28A    | 28A/28A   | 28A/28A   | 28A/42A   | 28A/42A   |
| AC Output Data                              |                                                              |           |           |           |            |           |           |           |           |
| Rated output power                          | 13000W                                                       | 15000W    | 17000W    | 20000W    | 22000W     | 23000W    | 25000W    | 27000W    | 30000W    |
| Max. output power                           | 14300W                                                       | 16500W    | 18700W    | 22000W    | 24000W     | 25300W    | 27500W    | 29700W    | 33000W    |
| Rated output voltage                        | 400V/320V-480V                                               |           |           |           |            |           |           |           |           |
| Rated output frequency                      | 50Hz,60Hz/±5Hz                                               |           |           |           |            |           |           |           |           |
| Rated output current                        | 19A                                                          | 22A       | 25A       | 29A       | 32A        | 34A       | 36A       | 40A       | 43.5A     |
| Max. output current                         | 21A                                                          | 24A       | 27A       | 32A       | 35A        | 37A       | 40A       | 43A       | 48A       |
| Power factor                                | -0.8-+0.8(adjustable)                                        |           |           |           |            |           |           |           |           |
| THDi                                        | <3%(Nominal Output)                                          |           |           |           |            |           |           |           |           |
| Grid system pattern                         | 3W+N+PE                                                      |           |           |           |            |           |           |           |           |
| Efficiency                                  |                                                              |           |           |           |            |           |           |           |           |
| Max. efficiency                             | 98.5%                                                        |           |           |           |            |           |           |           |           |
| Europe efficiency                           | 98.2%                                                        |           |           |           |            |           |           |           |           |
| Protection                                  |                                                              |           |           |           |            |           |           |           |           |
| Input DC switch                             | Yes                                                          |           |           |           |            |           |           |           |           |
| Input over current protection               | Yes                                                          |           |           |           |            |           |           |           |           |
| DC reverse polarity protection              | Yes                                                          |           |           |           |            |           |           |           |           |
| Output over voltage protection              | Yes                                                          |           |           |           |            |           |           |           |           |
| Output over current protection              | Yes                                                          |           |           |           |            |           |           |           |           |
| Anti islanding protection                   | Yes                                                          |           |           |           |            |           |           |           |           |
| AC surge protection                         | Yes                                                          |           |           |           |            |           |           |           |           |
| DC surge protection                         | Yes                                                          |           |           |           |            |           |           |           |           |
| Insulation impedance protection             | Yes                                                          |           |           |           |            |           |           |           |           |
| RCD detection                               | Yes                                                          |           |           |           |            |           |           |           |           |
| General Data                                |                                                              |           |           |           |            |           |           |           |           |
| Dimensions(W/L/H)in mm                      | 403/360/236                                                  |           |           |           |            |           |           |           |           |
| Weight                                      | 18.5kg                                                       |           |           |           | 20.5kg     |           |           | 22kg      |           |
| Noise                                       | <30dB                                                        |           |           |           |            |           |           |           |           |
| Operation temperature range                 | -25°C-+60°C                                                  |           |           |           |            |           |           |           |           |
| Heat dissipation mode                       | Smart cooling                                                |           |           |           |            |           |           |           |           |
| IP Class                                    | IP 65                                                        |           |           |           |            |           |           |           |           |
| Maximum altitude                            | 4000m                                                        |           |           |           |            |           |           |           |           |
| Self-Consumption night                      | <1w                                                          |           |           |           |            |           |           |           |           |
| Topology                                    | Transformerless                                              |           |           |           |            |           |           |           |           |
| Features                                    |                                                              |           |           |           |            |           |           |           |           |
| LCD display                                 | Yes                                                          |           |           |           |            |           |           |           |           |
| Communication interface                     | WIFI/GPRS/RS485(optional)                                    |           |           |           |            |           |           |           |           |
| Warranty                                    | 5 years (standard)                                           |           |           |           |            |           |           |           |           |
| Standards                                   | IEC62109-1,IEC62109-2,NB/T32004,VDE-AR-N4105,EN50549,AS 4777 |           |           |           |            |           |           |           |           |