

SCA100/125K-T-EU

Three-Phase String Inverter

100/125kW • 12 MPPTs • 1100Vdc System



Efficient

Appealing yield

- 12 MPPTs with Max. Efficiency 98.50%
- Easily compatible with various PV modules based on max. input current 30A per MPPT
- Superb temperature performance, full power at 45°C
- 150% DC/AC ratio

Smart

Pragmatic option

- Communication interfaces [RS485/ Wi-Fi (Standard) & 4G (Optional)]
- Built-in Bluetooth and App for local and remote monitoring
- Support zero export by meter+CT

Safety

Solid quality

- Durable and robust component
- IP66&C5 protection
- Type II SPD for both DC and AC

| Model Name                             | SCA100K-T-EU                                                                                                                                                                                                              | SCA125K-T-EU |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| DC Input                               |                                                                                                                                                                                                                           |              |
| Max. DC Voltage                        | 1100Vdc                                                                                                                                                                                                                   |              |
| MPPT Operating Voltage Range           | 200 - 950Vdc                                                                                                                                                                                                              |              |
| Start Voltage                          | 300Vdc                                                                                                                                                                                                                    |              |
| Rated DC Voltage                       | 615Vdc                                                                                                                                                                                                                    |              |
| Number of MPPT                         | 12                                                                                                                                                                                                                        |              |
| Number of DC Connection Sets per MPPT  | 2                                                                                                                                                                                                                         |              |
| Max. input current per MPPT            | 30A                                                                                                                                                                                                                       |              |
| Max. DC short-circuit current per MPPT | 45A                                                                                                                                                                                                                       |              |
| DC Disconnection Type                  | Integrated Switch                                                                                                                                                                                                         |              |
| AC Output                              |                                                                                                                                                                                                                           |              |
| Rated AC Power                         | 100kW                                                                                                                                                                                                                     | 125kW        |
| Max. AC Power                          | 110kVA                                                                                                                                                                                                                    | 125kVA       |
| Rated AC Voltage                       | 380 / 400V                                                                                                                                                                                                                |              |
| AC Voltage Range <sup>1</sup>          | 322 - 528V                                                                                                                                                                                                                |              |
| Grid Connection Type                   | 3 / N / PE                                                                                                                                                                                                                |              |
| Max. AC Current                        | 167.2A                                                                                                                                                                                                                    | 190A         |
| Grid Frequency                         | 50 / 60Hz                                                                                                                                                                                                                 |              |
| Grid Frequency Range <sup>1</sup>      | 45-55 / 55-65Hz                                                                                                                                                                                                           |              |
| Power Factor (cosφ)                    | >0.99(±0.8 adjustable)                                                                                                                                                                                                    |              |
| Current THD                            | < 3%                                                                                                                                                                                                                      |              |
| System Data                            |                                                                                                                                                                                                                           |              |
| Topology                               | Transformerless                                                                                                                                                                                                           |              |
| Max. Efficiency                        | 98.11%                                                                                                                                                                                                                    | 98.50%       |
| Euro Efficiency                        | 98.00%                                                                                                                                                                                                                    | 98.10%       |
| Protection                             |                                                                                                                                                                                                                           |              |
| Anti-islanding Protection              | Yes                                                                                                                                                                                                                       |              |
| DC reverse polarity protection         | Yes                                                                                                                                                                                                                       |              |
| DC overvoltage protection              | Yes                                                                                                                                                                                                                       |              |
| Insulation resistance detection        | Yes                                                                                                                                                                                                                       |              |
| Residual Current Monitoring Unit       | Yes                                                                                                                                                                                                                       |              |
| Ground fault monitoring                | Yes                                                                                                                                                                                                                       |              |
| AC short circuit protection            | Yes                                                                                                                                                                                                                       |              |
| AC overvoltage protection              | Yes                                                                                                                                                                                                                       |              |
| PV string monitoring                   | Yes                                                                                                                                                                                                                       |              |
| Dry contact remote control             | Yes                                                                                                                                                                                                                       |              |
| I-V curve scan                         | Yes                                                                                                                                                                                                                       |              |
| AFCI                                   | Yes                                                                                                                                                                                                                       |              |
| Surge Protection                       | DC Type II / AC Type II                                                                                                                                                                                                   |              |
| Environment Data                       |                                                                                                                                                                                                                           |              |
| Ingress Protection                     | IP66                                                                                                                                                                                                                      |              |
| Cooling Method                         | Cooling Fans                                                                                                                                                                                                              |              |
| Operating Temperature                  | -30° C to +60° C                                                                                                                                                                                                          |              |
| Ambient Humidity                       | 0 - 100%                                                                                                                                                                                                                  |              |
| Altitude                               | 4000m                                                                                                                                                                                                                     |              |
| Display and Communication              |                                                                                                                                                                                                                           |              |
| Display                                | LED + APP(Bluetooth)                                                                                                                                                                                                      |              |
| Communication                          | RS485/Wi-Fi (Standard) & 4G (Optional)                                                                                                                                                                                    |              |
| Mechanical Data                        |                                                                                                                                                                                                                           |              |
| Dimensions (W*H*D)                     | 1050 * 660 * 340.5mm                                                                                                                                                                                                      |              |
| Weight                                 | 90kg                                                                                                                                                                                                                      |              |
| DC Connection Type                     | MC4 (Max. 6mm²)                                                                                                                                                                                                           |              |
| AC Connection Type                     | OT/DT Terminal (Max. 240mm²)                                                                                                                                                                                              |              |
| Safety                                 |                                                                                                                                                                                                                           |              |
| Certifications <sup>2</sup>            | IEC/EN 61000, IEC/EN 62109, IEC 61727, IEC 62116, EN50549-1/2, IEC 63027, IEC 61683, C10/11, CEI 0-16/21, NC RfG, NTS V2.1, RD 647, RD 413, RD 1699, UNE 217001, UNE 217002, VDE-AR-N 4110, VDE-AR-N 4105, VDE V 0124-100 |              |

<sup>\*1</sup> AC Power is different under different rated AC voltage.  
<sup>\*2</sup> The certificates are for reference only.Please consult the local sales staff for detailed certification.  
<sup>\*3</sup> For reference only. Chint Power reserve the right to alterations for the data above.