

# SCA5~25K-T-EU

## Three-Phase String Inverter

5~25kW • 2 MPPTs • 1100Vdc System



### Efficient

#### Appealing yield

- 2 MPPTs with Max. Efficiency 98.12%
- Easily compatible with various PV modules based on max. input current 15A per string
- 150% DC/AC ratio
- Lower startup & wider MPPT voltage

### 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

### Safe

#### Solid quality

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

| Model Name                             | SCA5K-T-EU   | SCA6K-T-EU | SCA8K-T-EU | SCA10K-T-EU | SCA15K-T-EU | SCA20K-T-EU | SCA25K-T-EU |
|--|--|------------|------------|-------------|-------------|-------------|-------------|
| <b>DC Input</b>                        |  |            |            |             |             |             |             |
| Max. DC Voltage                        | 1100Vdc  |            |            |             |             |             |             |
| MPPT Operating Voltage Range           | 200 - 1000Vdc  |            |            |             |             |             |             |
| Start Voltage                          | 250Vdc   |            |            |             |             |             |             |
| Rated DC Voltage                       | 600Vdc   |            |            |             |             |             |             |
| Number of MPPT                         | 2  |            |            |             |             |             |             |
| Number of DC Connection Sets per MPPT  | 1  |            |            | 2           |             |             |             |
| Max. input current per MPPT            | 15A  |            |            | 30A         |             |             |             |
| Max. DC short-circuit current per MPPT | 23A  |            |            | 45A         |             |             |             |
| DC Disconnection Type                  | Integrated Switch  |            |            |             |             |             |             |
| <b>AC Output</b>                       |  |            |            |             |             |             |             |
| Rated AC Power                         | 5kW  | 6kW        | 8kW        | 10kW        | 15kW        | 20kW        | 25kW        |
| Max. AC Power                          | 5.5kVA   | 6.6kVA     | 8.8kVA     | 11kVA       | 16.5kVA     | 22kVA       | 27.5kVA     |
| Rated AC Voltage                       | 380 / 400V   |            |            |             |             |             |             |
| AC Voltage Range1                      | 277 - 520V   |            |            |             |             |             |             |
| Grid Connection Type                   | 3 / N / PE   |            |            |             |             |             |             |
| Max. AC Current                        | 8.4A   | 10A        | 13.4A      | 16.7A       | 25A         | 33.4A       | 41.7A       |
| Grid Frequency                         | 50 / 60Hz  |            |            |             |             |             |             |
| Grid Frequency Range1                  | 45-55 / 55-65Hz  |            |            |             |             |             |             |
| Power Factor (cosφ)                    | >0.99(±0.8 adjustable)   |            |            |             |             |             |             |
| Current THD                            | < 3%   |            |            |             |             |             |             |
| <b>System Data</b>                     |  |            |            |             |             |             |             |
| Topology                               | Transformerless  |            |            |             |             |             |             |
| Max. Efficiency                        | 97.82%   | 97.87%     | 97.69%     | 97.66%      | 97.87%      | 97.87%      | 98.12%      |
| Euro Efficiency                        | 96.93%   | 96.96%     | 97.41%     | 97.41%      | 97.13%      | 97.42%      | 97.87%      |
| <b>Protection</b>                      |  |            |            |             |             |             |             |
| DC reverse connection protection       | Yes  |            |            |             |             |             |             |
| AC short circuit protection            | Yes  |            |            |             |             |             |             |
| Leakage current protection             | Yes  |            |            |             |             |             |             |
| 24h Grid monitoring                    | Yes  |            |            |             |             |             |             |
| Ground fault monitoring                | Yes  |            |            |             |             |             |             |
| Surge Protection                       | DC Type II / AC Type II  |            |            |             |             |             |             |
| AFCI                                   | Yes  |            |            |             |             |             |             |
| <b>Environment Data</b>                |  |            |            |             |             |             |             |
| Ingress Protection                     | IP66   |            |            |             |             |             |             |
| Cooling Method                         | Cooling Fans   |            |            |             |             |             |             |
| Operating Temperature                  | -25°C to +60°C   |            |            |             |             |             |             |
| Ambient Humidity                       | 0 - 100%   |            |            |             |             |             |             |
| Altitude                               | 2000m  |            |            |             |             |             |             |
| <b>Display and Communication</b>       |  |            |            |             |             |             |             |
| Display                                | LED + APP(Bluetooth)   |            |            |             |             |             |             |
| Communication                          | RS485 / Wi-Fi (Standard) & 4G (Optional)   |            |            |             |             |             |             |
| <b>Mechanical Data</b>                 |  |            |            |             |             |             |             |
| Dimensions (W*H*D)                     | 530 * 426 * 200mm  |            |            |             |             |             |             |
| Weight                                 | 22kg   |            |            |             |             |             |             |
| DC Connection Type                     | MC4 (Max. 6 mm <sup>2</sup> )  |            |            |             |             |             |             |
| AC Connection Type                     | OT/DT Terminal (Max.35 mm <sup>2</sup> )   |            |            |             |             |             |             |
| <b>Safety</b>                          |  |            |            |             |             |             |             |
| Certifications2                        | IEC/EN 61000, IEC/EN 62109, IEC 61727, IEC 62116, IEC 63027, IEC 61683, IEC/EN 62920, EN 55011, C10/11, CEI 0-21, EN50549-1/2, NC RfG, PTPIREE, NTS V2.1, RD 647, RD413, RD 1699, UNE 217002, UTE C15-712-1, DIN VDE 0126-1-1, VDE-AR-N 4105, DIN VDE V 0124, TOR Erzeuger Typ A/B |            |            |             |             |             |             |

\*1 "AC Voltage Range" and "Grid Frequency Range" may be differ according to specific grid codes.  
 \*2 The certificates are for reference only. Please consult the local sales staff for detailed certification.  
 \*3 For reference only. Chint Power reserve the right to alterations for the data above.