

# 1500V 1.25/1.5MW Grid-tied PV Inverter

CPS SCH1250/1500K is designed for 1500Vdc PV systems. The inverter adopts 3-level I-type topology, max. efficiency up to 99%, Euro. efficiency up to 98.6%. Intelligent power control can get higher efficiency, better power quality and expanded service time under low power conditions. Modular design ensures that the other modules will keep working when any module fails. This can reduce the impact of faults.



CPS SCH1250/1500K

## High Energy Harvest

- 3-level I-type topology, max. efficiency up to 99%
- Max. DC voltage 1500V, reducing the initial investment
- Optimized MPPT control technology
- Space vector PWM, decreasing switching losses
- Intelligent power control

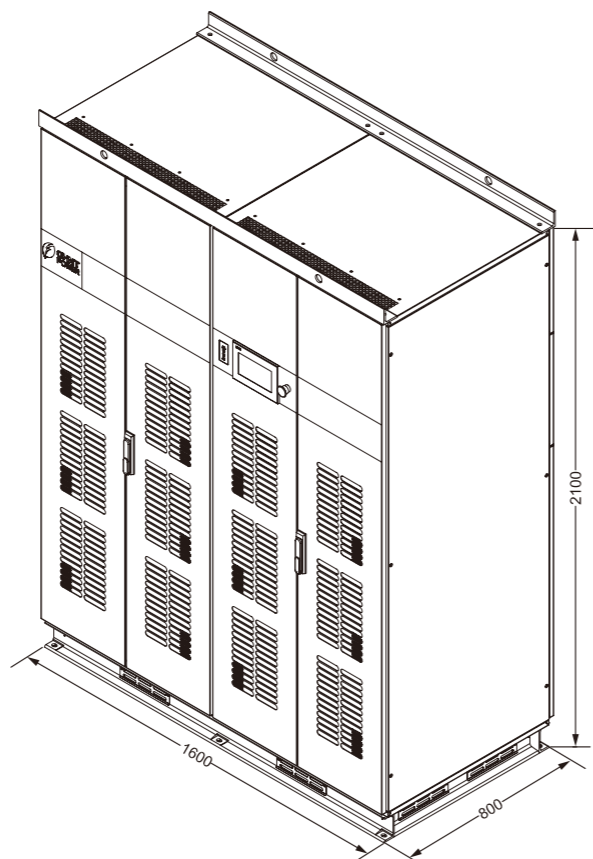
## High Reliability

- Modular design, reducing the impact of faults
- Comprehensive protection functions
- Advanced thermal design
- Embedded ground-fault circuit & Interrupter

## Broad Adaptability

- DC breaker integrated, reducing the initial investment
- High altitude application in long-term and reliable operation
- Active power continuously adjustable
- Reactive power adjustable and the power factor range from -0.9 to +0.9
- Integrated anti-PID, SVG function

## Dimensions



| Model Name                       | CPS SCH1250K  | CPS SCH1500K |
|----------------------------------|---|--------------|
| <b>DC Input</b>                  |   |              |
| Nominal DC Input Power           | 1289kW  | 1547kW       |
| Max. DC Input Voltage            | 1500Vdc   |              |
| Operating DC Input Voltage Range | 800-1500Vdc   | 880-1500Vdc  |
| Start-up DC Input Voltage        | 840V  | 940V         |
| Number of MPP Tracker            | 1   | 1            |
| MPPT Voltage Range               | 830-1300Vdc   | 900-1300Vdc  |
| Max. Input Current               | 1771A   |              |
| Number of DC Inputs              | 10(Max. 12)   | 12           |
| DC Disconnection Type            | Breaker   |              |
| PV Array Configuration           | Floating  |              |
| <b>AC Output</b>                 |   |              |
| Rated AC Output Power            | 1250kW  | 1500kW       |
| Max. AC Output Power             | 1375kVA   | 1500kVA      |
| Rated Output Voltage             | 550Vac  |              |
| Output Voltage Range*            | -15%, +10%  |              |
| Grid Connection Type             | 3Φ/PE   |              |
| Max AC Output Current            | 1443A   |              |
| Rated Output Frequency           | 50Hz/60Hz   |              |
| Output Frequency Range*          | 47-51.5Hz/57-62Hz   |              |
| Power Factor                     | >0.99 (±0.9 adjustable)   |              |
| Current THD                      | <3%   |              |
| AC Disconnection Type            | Breaker   |              |
| <b>System</b>                    |   |              |
| Topology                         | Transformerless   |              |
| Max. Efficiency                  | 99.0%   |              |
| Euro Efficiency                  | 98.6%   |              |
| Stand-by / Night Consumption     | <120W   |              |
| <b>Environment</b>               |   |              |
| Protection Degree                | IP20  |              |
| Cooling                          | Forced cooling fans   |              |
| Operating Temperature Range      | -25°C to +65°C (derating from 55°C)   |              |
|                                  | -40°C - +65°C (optional heater)   |              |
| Operating Humidity               | 0-95%, non-condensing   |              |
| Operating Altitude               | 4000m (derating from 3000m)   |              |
| <b>Display and Communication</b> |   |              |
| Display                          | Touchscreen   |              |
| Communication                    | Standard: RS485, Ethernet   |              |
| <b>Mechanical Data</b>           |   |              |
| Dimensions (WxHxD) (mm)          | 1600x2100x800   |              |
| Weight (kg)                      | <1400   |              |
| <b>Safety</b>                    |   |              |
| Safety and EMC Standard          | LVD: 2006/95/EC, IEC/EN 62109-1: 2010, IEC/EN 62109-2: 2011.<br>EMC: 2004/108/EC; IEC/EN61000-6-2: 2005, IEC/EN61000-6-4: 2007. |              |
| Grid Standard                    | IEC61727: 2004, GB/T19964-2012, NB/T32004-2013  |              |

\* The "Output Voltage Range" and "Output Frequency Range" may differ according to specific grid standards.