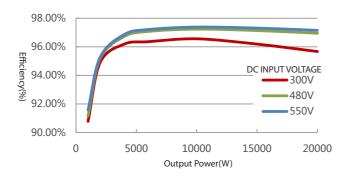


14/20kW Grid-tied PV Inverter for North America

CPS is a fast growing global inverter manufacturer with over 500MW's of product operating in 18 countries. CPS is focused on delivering the best lifecycle value in the industry with performance leadership that will surprise you, cost leadership delivered with a world class supply chain and bankability from a diversified and global company that is here to support you and your investment.

The CPS SC14/20KTL-DO grid-tied transformer-less PV inverter is an ideal building block for 600VDC commercial three phase applications. The integrated and flexible wiring box eliminates the need for DC combiner boxes in the field. Dual, and independent, MPPT's enable granular power conversion and design flexibility. The unit is easily serviceable with a replacement unit in the field, significantly improving uptime over the life of the system.

Efficiency Curve



Efficient and Flexible

- Maximum efficiency: 96.7% (14kW), 97.4% (20kW)
- Flat, award winning, efficiency curve
- Wide full load MPPT window
- Dual, independent MPPT channels increase energy harvest
- Broad operating temperature: -13°F to +140°F
- Supports 1.35 DC/AC ratio

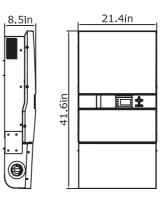
Robust and Reliable

- NEMA 4 (IP65) for outdoor application
- Approved for direct sunlight installation
- Warranty up to 20 years
- Enhanced DSP and redundant system protection
- Advanced thermal design
- System HALT Tested (-94 to +211°F)



CPS SC14KTL-DO/US-208 CPS SC20KTL-DO/US-480

Dimensions



Intelligent Features and Integration

- Flexible input stringing between 1-8 inputs
- Integrated AC/DC switch
- Light weight for rooftop installation
- Integrated GFCI
- Arc Fault Detection and Interruption (Factory option - contact CPS to enable)
- Power factor (±0.9) and curtailment controls
- Integrated standard modbus communication





| Model Name | CPS SC14KTL-DO/US-208 | CPS SC20KTL-DO/US-480 |
|-----------------------------------|--|---------------------------------------|
| DC Input | | |
| Max. PV Power | 19kW (9.5kW/MPPT) | 27kW (13.5kW/MPPT) |
| Nominal DC Input Power | 14.6kW | 21kW |
| Max. DC Input Voltage | | 600Vdc |
| Operating DC Input Voltage Range | 180-580Vdc | 260-580Vdc |
| Start-up DC Input Voltage / Power | 300V/100W | |
| Nominal DC Input Voltage | 400Vdc | 500Vdc |
| Number of MPP Trackers | | 2 |
| MPPT Voltage Range | 300-540Vdc | 300-550Vdc |
| Max. Input Current (Imp) | 50A (25A per MPPT) | 70A (35A per MPPT) |
| Max. Short Circuit Current (lsc) | 90A (45A per MPPT) | 91A (45.5A per MPPT) |
| Number of DC Inputs and Fuses | | - |
| DC Disconnection Type | 8 fused conductors (4 per MPPT) | |
| AC Output | | |
| Rated AC Output Power | 14kW | 20kW |
| Max. AC Output Power | 14kW | 20kW |
| Rated Output Voltage | 208Vac | 480Vac |
| Output Voltage Range | 183-228Vac | 422-528Vac |
| Grid Connection Type | 3Φ/N/PE | 3Φ/N/PE (Optional Neutral Connection) |
| Max AC Output Current | 39A | 24A |
| Rated Output Frequency | 60Hz | |
| Output Frequency Range | 59.3-60.5Hz | |
| Power Factor | >0.99 (±0.8 adjustable) | |
| Current THD | <3% | |
| AC Disconnection Type | Load ra | ted AC switch |
| System | | |
| Гороlоду | Transformerless | |
| Max. Efficiency | 96.7% | 97.4% |
| CEC Efficiency | 96.0% | 97.0% |
| Stand-by / Night Consumption | <2 | 20W/<2W |
| Environment | | |
| Protection Degree | NEMA 4 (IP65) | |
| Cooling | Variable speed cooling fans | |
| Operating Temperature Range | -13°F to +140°F/- 25°C to +60°C (derating from +122°F/+50°C) | |
| Operating Humidity | 0-95%, non-condensing | |
| Operating Altitude | 13123ft/4000m (derating from 6562ft/2000m) | |
| Display and Communication | | |
| Display | LCD+LED | |
| Communication | RS485 | |
| Mechanical Data | | |
| Dimensions (WxHxD) | 21.4x41.6x8.5in/544x1058x215mm | |
| Weight | 141lbs/64kg | |
| Safety | | |
| Safety and EMC Standard | UL1741:2010, CSA-C22.2 NO.107.1-01, IEEE1547; FCC PART15 | |
| Grid Standard | IEEE1547: 2003, IEEE1547.1: 2005 | |
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