

# 14kW, 208Vac PV Inverter for North America

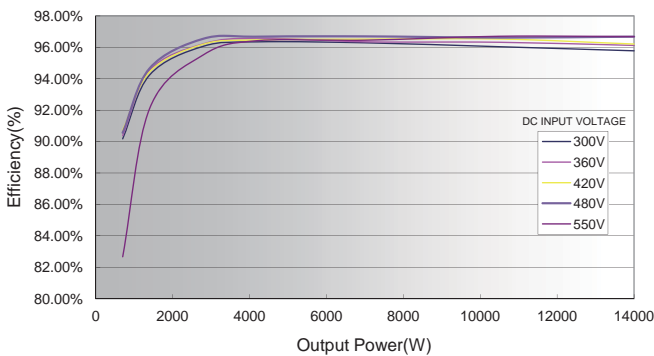
CPS is a fast growing global inverter manufacturer with over 500MW's of product operating in 18 countries. CPS is focused on delivering the best lifecycle value in the industry with performance leadership that will surprise you, cost leadership delivered with a world class supply chain and bankability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

The CPS SC14KTL-DO/US-208 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.



CPS SC14KTL-DO/US-208

## Efficiency Curve



## Efficient and Flexible

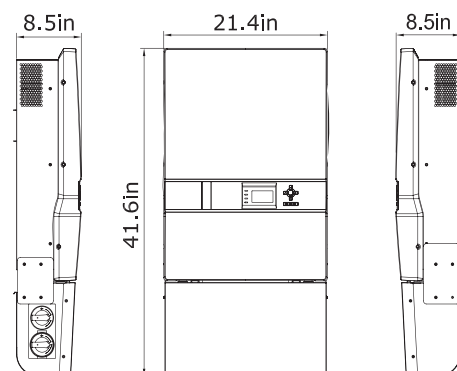
- Maximum efficiency of 96.7%
- Flat, award winning, efficiency curve
- Wide full load MPPT window
- Dual, independent MPPT channels increase energy harvest
- Broad operating temperature: -13°F to +140°F
- Supports 1.35 DC/AC ratio

## Intelligent Features and Integration

- Flexible input stringing between 1-8 inputs
- Integrated AC/DC switch
- Light weight for rooftop installation
- Integrated GFCI
- Integrated AFCI (per 1699B, Optional feature factory enabled)
- Power factor (±0.9) and curtailment controls
- Integrated Standard Modbus communication

## Robust and Reliable

- NEMA 4 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°F to +212°F)



Dimensions

Model Name	CPS SC14KTL-DO/US-208
<b>DC Input</b>	
Max. PV Power	19kW
Nominal DC Input Power	14.6kW
Max. DC Input Voltage	600Vdc
Operating DC Input Voltage Range	180-580Vdc
Start-up DC Input Voltage / Power	300V / 100W
Nominal DC Input Voltage	400Vdc
Number of MPP Trackers	2
MPPT Voltage Range	300-540Vdc
Max. Input Current (Imp)	50A (25A per MPPT)
Max. Short Circuit Current (Isc)	90A (45A per MPPT)
Number of DC Inputs and Fuses	8 fused conductors (4 per MPPT)
DC Disconnection Type	Load rated DC switch
<b>AC Output</b>	
Rated AC Output Power	14kW
Max. AC Output Power	14kW
Rated Output Voltage	208Vac
Output Voltage Range	183-228Vac
Grid Connection Type	3Φ / N / PE
Max AC Output Current	39A
Rated Output Frequency	60Hz
Output Frequency Range	57-63Hz
Power Factor	>0.99 (±0.8 adjustable)
Current THD	<3%
AC Disconnection Type	Load rated AC switch
<b>System</b>	
Topology	Transformerless
Max. Efficiency	96.7%
CEC Efficiency	96.0%
Stand-by / Night Consumption	<20W / <2W
<b>Environment</b>	
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	6562ft / 2000m (derating from 4921ft / 1500m)
Audible Noise	<55db
<b>Display and Communication</b>	
Display	LCD + LED
Communication	RS485
<b>Mechanical Data</b>	
Dimensions (WxHxD)	21.4x41.6x8.5in / 544x1058x215mm
Weight	141lbs / 64kg
<b>Safety</b>	
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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