

# 3/4/5/6kW Grid-tied PV Inverters for North America

The CPS second generation 3/4/5/6kW single phase inverters offer an ideal combination of value, performance and application flexibility. Maximum efficiency of 97.5% (CEC 97%) ensures high yield while the wide DC operating window maximizes energy harvest time. Dual MPPT's on the 3/4/5/6kW models add more harvest cash-flows and application flexibility. Fan-less cooling increases reliability, reduced operating cost, and a double skin front cover reduces solar heat gain when installed in direct sunlight. Excellent performance and industry leading cost effectiveness from a team you can bank on.

**New - Shipping Fall 2013**

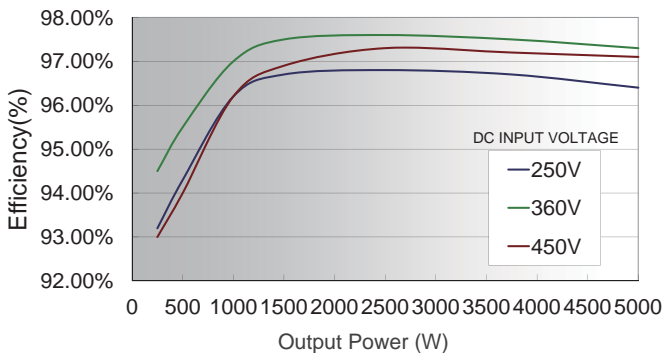


CPS SCA3KTL-O/US  
CPS SCA4KTL-O/US

CPS SCA5KTL-O/US  
CPS SCA6KTL-O/US

## Efficiency Curve

CPS SCA5KTL-O/US @ 240Vac



### High Efficiency

- Max. efficiency of 97.5%, CEC efficiency of 97.0%
- High speed and precise MPPT algorithm

### High Reliability

- Standard warranty: 10 years
- Fan-less design for the 3/4/5kW
- GFCI embedded
- ARC-Fault detection and interruption
- HALT tested for robust operating life
- No maintenance required
- Zigbee and Ethernet option cards

### Broad Adaptability

- Dual-MPPT
- Wide Operating Range 150-550Vdc
- NEMA 3R (IP65), outdoor application
- Small, light (77-84 pounds), with handles
- Lead-free, RoHS compliant
- Integrated DC, AC fuses and disconnects
- Setting range to 57Hz
- Adjustable PF ±0.95
- Standard RS485, optional Zigbee and Ethernet
- FCC Class B



Model Name	CPS SCA3KTL-O/US	CPS SCA4KTL-O/US	CPS SCA5KTL-O/US	CPS SCA6KTL-O/US
<b>DC Input</b>				
Max. PV Power	4kW	5.2kW	6.5kW	7.8kW
Nominal DC Input Power	3.2kW	4.2kW	5.2kW	6.4kW
Max. DC Input Voltage	550Vdc	550Vdc	550Vdc	550Vdc
Operating DC Input Voltage Range	150-550Vdc			
Start-up DC Input Voltage	200Vdc			
Nominal DC Input Voltage	360Vdc			
Number of MPP Trackers	2	2	2	2
Number of DC Input Pairs	2x2	2x2	2x2	2x2
MPPT Voltage Range	200-470Vdc			
Max. Input Current (Imp)	16A	21A	26A	32A
Max. Input Current per String	13A	13A	13A	16A
Max. Short Circuit Current (Isc)	25.6A (12.8A / MPPT)	33.6A (16.8A / MPPT)	41.6A (20.8A / MPPT)	51.2A (25.6A / MPPT)
DC Disconnection Type	Load rated DC switch			
<b>AC Output</b>				
Nominal AC Power @ 208Vac	2.85kW	3.8kW	4.6kW	5.5kW
Nominal AC Power @ 240Vac	3kW	4kW	5kW	6kW
Max. AC Power @ 208Vac	2.85kW	3.8kW	4.6kW	5.7kW
Max. AC Power @ 240Vac	3.2kW	4.2kW	5.2kW	6.2kW
Rated Output Voltage	208Vac / 240Vac			
Output Voltage Range @ 208Vac	183-228Vac			
Output Voltage Range @ 240Vac	211-264Vac			
Grid Connection Type	Single phase			
Nominal AC Current @ 208Vac	13.5A	18A	22A	27.5A
Nominal AC Current @ 240Vac	12.5A	16.7A	20.8A	25.0A
Max. AC Current @ 208Vac System	13.5A	18A	22A	27.5A
Max. AC Current @ 240Vac System	13.5A	18A	22A	27.5A
Rated Output Frequency	60Hz			
Output Frequency Range	59.3-60.5Hz (adjustable)			
Power Factor	>0.99 ( $\pm$ 0.95 adjustable)			
Current THD	<3%			
AC Disconnection Type	Load rated AC switch			
<b>System</b>				
Topology	Transformerless			
Max. Efficiency	97.5%			
CEC Efficiency	96.5%		97%	
Stand-by / Night Consumption	<8W / <1W			
<b>Environment</b>				
Protection Degree	NEMA 3R			
Cooling	Natural convection		Variable speed cooling fans	
Operating Temperature Range	-13°F to +140°F / -25°C to +60°C (derating from +113°F / +45°C)			
Operating Humidity	0-95%, non-condensing			
Operating Altitude	6262ft / 2000m without derating			
<b>Display and Communication</b>				
Display	LCD + LED			
Communication	RS485 (Modbus), Ethernet, Zigbee (optional)			
<b>Mechanical Data</b>				
Dimensions (WxHxD)	17x28.7x8.7in / 436x728x220mm			
Weight	84lbs / 38kg			
<b>Safety</b>				
Safety and EMC Standard	UL1741: 2010, CSA C22.2 No.107.1-01, FCC PART15 Class B			
Grid Standard	IEEE1547: 2003, IEEE1547.1: 2005			

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