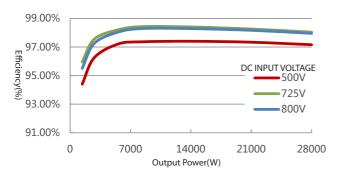


23/28kW, 1000Vdc String Inverters for North America

The medium power series of grid-tied, transformerless inverters help to accelerate the use of 1000Vdc and three phase string architecture for commercial and small ground mount utility applications. A NRTL approved, cost effective alternative to central inverters enabling BoS cost savings, high harvest performance and modular design building blocks. These models provide up to 98.6% conversion efficiency and wide operating window of 300-900Vdc and dual MPPT's for maximum cash-flow generation.

Efficiency Curve

CPS SCA28KTL-DO/US-480



High Efficiency

- Maximum efficiency of 98.6%, CEC efficiency of 98%
- 3-level technology and enhanced control mechanism to achieve high efficiency over wide load range
- 2 MPPTs to achieve higher system efficiency
- Transformerless design

High Reliability

- "Electrolyte-free design" for improved long-term reliability
- Standard warranty: 5 years, extension up to 20 years
- Advanced thermal design, with variable speed fans
- Ground-fault detection and interruption circuit
- AFCI Integrated (per UL1699B, Factory Enabled Option)

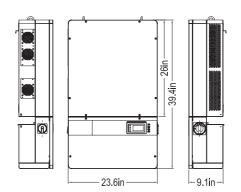






CPS SCA23KTL-DO/US-480 CPS SCA28KTL-DO/US-480

Dimensions



Broad Adaptability

- NEMA 4 (IP65), outdoor application
- Utility interactive controls : Active power derating, reactive power control
- Separate wiring box design
- Integrated DC, AC disconnects
- Wide MPPT range for flexible string sizing
- 1000V Max. DC input voltage for flexible configuration
- 15 90 degree installation angle



Model Name	CPS SCA23KTL-DO/US-480	CPS SCA28KTL-DO/US-480
DC Input		
Max. PV Power	31kW (15.5kW/MPPT)	38kW (19kW/MPPT)
Nominal DC Input Power	24kW	29kW
Max. DC Input Voltage	100	00Vdc
Operating DC Input Voltage Range	300-900Vdc	
Start-up DC Input Voltage / Power	330V/300W	
Number of MPP Trackers	2	
MPPT Voltage Range	480-800Vdc	500-800Vdc
Max. Input Current (Imp)	50A (25A per MPPT)	58A (29A per MPPT)
Max. Short Circuit Current (Isc)	82A (41A per MPPT)	96A (48A per MPPT)
Number of DC Inputs	8 inputs,	4 per MPPT
DC Disconnection Type	Load rated DC switch	
AC Output		
Rated AC Output Power	23kW	28kW
Max. AC Output Power	23kW	28kW
Rated Output Voltage	48	80Vac
Output Voltage Range*	422-528Vac	
Grid Connection Type	3Φ/N/PE	
Max AC Output Current	27.7A	33.7A
Rated Output Frequency	6	0Hz
Output Frequency Range*	59.3-60.5Hz	
Power Factor	>0.99 (±0.8 adjustable)	
Current THD	<3%	
AC Disconnection Type	Load rated AC switch	
System		
Гороlоду	Transformerless	
Max. Efficiency	98.6%	
CEC Efficiency	98.0%	
Stand-by / Night Consumption	<20W/<2W	
Environment		
Protection Degree	NE	MA 4
Cooling	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	13123.4ft/4000m (derating from 6561.7ft/2000m)	
Display and Communication		
Display	ICI	D+LED
Communication	Standard: RS485 (Modbus)	
Mechanical		,,
Dimensions (WxHxD)	23.6×39.4×9.1in/600×1000×230mm	
Weight	122lbs/55kg	
nstallation Angle	15 - 90 degrees from horizontal	
Safety	13 30 degree	
Safety and EMC Standard	UL1741:2010, CSA-C22.2 NO.107.1-01, IEEE1547; FCC PART15	
Grid Standard	IEEE1547: 2003, IEEE1547.1: 2005	