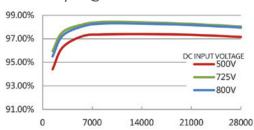


THREE-PHASE STRING INVERTER 23 - 28 kW

The three phase grid-tied transformerless string inverter offers dual MPPTs to accommodate two arrays mounted at different azimuth and/or tilt angles, different string length—even different size modules. With a 98% CEC conversion efficiency and a wide operating window of 300-900 VDC, it will provide maximum power generation. The use of 1000V DC will enable BoS cost saving.

Efficiency Curve

CSI KTL-0/US@240Vac



CanadianSolar

High Efficiency

- Max. Efficiency of 98.4%, 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
- ARC-fault detection function (factory enabled option)

Broad Adaptability

- NEMA 4 (IP65), outdoor application
- Active power derating, over frequency derating and reactive power adjustable
- Separate wiring box design
- Low voltage ride through
- Integrated DC, AC disconnects
- Wide MPPT range for flexible string sizing
- 1000V Max. DC input voltage for flexible configuration
- 15 90 degree installation orientation

Canadian Solar Inc.

Founded in 2001 in Ontario, Canada, Canadian Solar is one of the world's largest and foremost solar power companies. As a leading manufacturer of solar photovoltaic modules and provider of solar energy solutions, Canadian Solar has an industry leading and geographically diversified pipeline of utility-scale solar power projects as well as a track record of successful solar deployment boasting over 7GW of premium quality modules installed in over 70 countries during the past 13 years. Canadian Solar is committed to providing high-quality solar products and solar energy solutions to customers around the world. For more information about our company, products and projects please visit www.canadiansolar.com.



Model Name	CSI-23KTL-CT		CSI-28KTL-CT
DC Input	C3I-23KTL-CT		C3I-26K1E-C1
Max. PV Power	31kW		38kW
Nominal DC Input Power	24kW		29kW
	24KVV	1000/4-	29KVV
Max. DC Input Voltage		1000Vdc	
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)	54A (27A per MPPT)		64A (32A per MPPT)
Max. Short Circuit Current (Isc)	82A (41A per MPPT)		96A (48A per MPPT)
Number of DC Inputs		8 inputs, 4 per MPP	
DC Disconnection Type		Load rated DC switch	
AC Output			
Rated AC Output Power	23kW		28kW
Max. AC Output Power	23kW		28kW
Rated Output Voltage		480Vac	
Output Voltage Range		422-528Vac	
Grid Connection Type		3φ/N/PE	
Max. AC Output Current	32A		39A
Rated Output Frequency		60Hz	
Output Frequency Range*		55-66Hz	
Power Factor		>0.99 (±0.8 adjustable	
Current THD		<3%	
AC Disconnection Type		Load rated AC switch	
System			
Topology		Transformerless	
Max efficiency		98.4%	
CEC efficiency		98.0%	
Stand-by/Night Consumption		<20W/<2W	
Environment			
Protection Degree		NEMA 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	13123.4	4ft / 4000m (derating from 656	
Display and Communication			
Display		LCD+LED	
Communication	Standard: RS485 (Modbus)		
Mechanical Data			
Dimensions (WxHxD)	2:	3.6x39.4x9.1in/600x1000x230i	mm
Weight		122lbs/55kg	
Safety		. 5	
Safety and EMC Standard	UL1741:2	2010, CSA C22.2 No. 107.1-01,	IEEE1547:FCC PART 15
Crid Ctandard		JEEE1E47, 2002 JEEE1E47	

Grid Standard
*The "MPPT Voltage Range" is adjustable through LCD operations.

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IEEE1547: 2003, IEEE1547.1:2005

^{*}The "Output Voltage Range" and "Output Frequency Range" may differ according to specific grid standard.