

THREE PHASE STRING INVERTER 60KW

CSI-60KTL-GI



Canadian Solar's grid-tied, transformer-less string inverters help to accelerate the use of three-phase string architecture for commercial rooftop and small ground-mount applications. An NRTL approved, cost-effective alternative to central inverters, these inverters are modular design building blocks that provide high yield and enable significant BoS cost savings. They provide up to 98.8% conversion efficiency, a wide operating range of 200-1000 V_{DC}, and four MPPTs for maximum energy harvest.



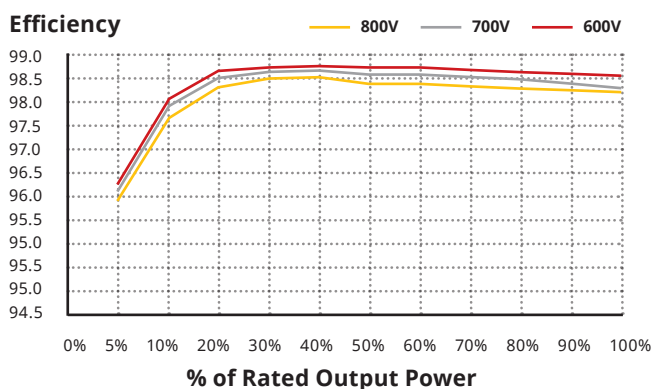
Standard warranty, extension up to 20 years

KEY FEATURES

- Maximum efficiency up to 98.8%, Maximum CEC efficiency up to 98.4%
- 4 MPPTs to achieve higher system efficiency
- Transformerless design
- High switching frequency and ultra fast MPPT (<5 sec.) for maximum efficiency over a wide load range

EFFICIENCY CURVE

CSI-60KTL-GI



*For detailed information, please refer to the Installation Manual.

HIGH RELIABILITY

- Advanced thermal design and convection cooling
- Built in over-voltage and over-current protection
- DC reverse polarity and AC short circuit protection

BROAD ADAPTIBILITY

- IP65 rated for outdoor application
- Utility interactive controls: Active power derating, reactive power control and over frequency derating
- Integrated DC load rated disconnect
- Wide MPPT range for flexible string sizing
- 90 degree installation angle
- Supports up to 8 DC string inputs (2 per MPPT)

CANADIAN SOLAR INC. is committed to providing high quality solar products, solar system solutions and services to customers around the world. As a leading PV project developer and manufacturer of solar modules with over 33 GW deployed around the world since 2001, Canadian Solar Inc. is one of the most bankable solar companies worldwide.

CANADIAN SOLAR INC.

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SYSTEM/TECHNICAL DATA	
MODEL NAME	CSI-60KTL-GI
DC INPUT	
Max. PV Power	72kW
Max. DC Input Voltage	1100 V _{DC}
Operating DC Input Voltage Range	200-1000 V _{DC}
Start-up DC Input Voltage	200 V
Number of MPP Trackers	4
MPPT Full Power Voltage Range	526-850 V _{DC}
Operating Current (Imp)	114 A (28.5 A per MPPT)
Max. Input Current (Isc)	178 A (44.5 A per MPPT)
Number of DC Inputs	8 (2 per MPPT)
DC Disconnection Type	Load rated DC switch
AC OUTPUT	
Rated AC Output Power	60 kW
Max. AC Output Power	66 kW
Rated Output Voltage	400 V _{AC}
Output Voltage Range*	304-460 V _{AC}
Grid Connection Type	3/N/PE
Nominal AC Output Current	86.6 A
Rated Output Frequency	50/60 Hz
Output Frequency Range*	47-52/57-62 Hz
Power Factor	1 default (±0.8 adjustable)
Current THD	< 3 %
SYSTEM	
Topology	Transformerless
Max. Efficiency	98.8 %
CEC Efficiency	98.4 %
Night Consumption	< 1 W
ENVIRONMENT	
Protection Degree	IP65
Cooling	Intelligent Redundant Cooling
Operating Temperature Range	-25 ° C to +60 ° C
Storage Temperature Range	-40 ° C to +70 ° C
Operating Humidity	0 - 100 %
Operating Altitude	4000 m
Audible Noise	<60 dBA @ 1 m
DISPLAY AND COMMUNICATION	
Display	LCD, 2*20
Communication	WiFi or GPRS
MECHANICAL DATA	
Dimensions (W / H / D)	630 x 700 x 357 mm
Weight	63 kg
Installation Angle	90 degrees from horizontal
DC Inputs	MC4
SAFETY	
Safety and EMC Standard	IEC62109-1-2
Grid Standard	AS4777.2:2015, VDE0126-1-1, IEC61727, VDE4105, EN50438,
Smart-Grid Features	Voltage-Ride Thru, Frequency-Ride Thru, Soft-Start, Volt-Var, Frequency-Watt, Volt-Watt

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

* The specifications and key features contained in this datasheet may deviate slightly from our actual products due to the on-going innovation and product enhancement. Canadian Solar Inc. reserves the right to make necessary adjustment to the information described herein at any time without further notice.

Caution: For professional use only. The installation and handling of PV equipment requires professional skills and should only be performed by qualified professionals. Please read the safety and installation instructions before using the product.