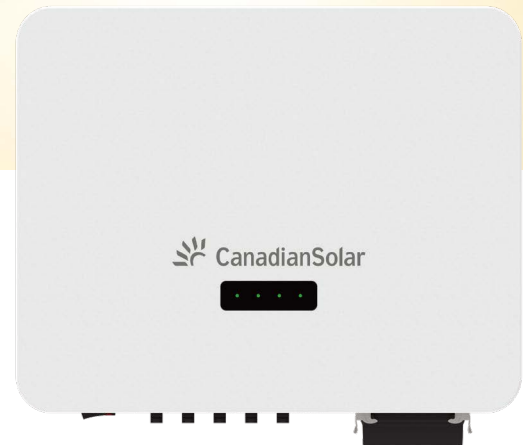




THREE PHASE STRING INVERTER 40-60 kW

CSI-40kW | CSI-50kW | CSI-60kW



CSI Solar's grid-tied, transformer-less string inverters help to accelerate the use of three-phase string architecture for industrial and commercial rooftop applications.

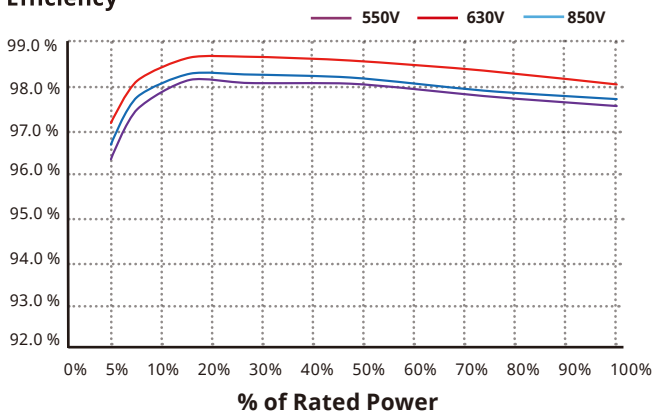
These inverters are modular design building blocks that provide high yield and enable significant BoS cost savings. They provide up to 98.7% conversion efficiency, a wide operating range of 200-1000 V_{DC}, and multi choice MPPTs for maximum energy harvesting.

KEY FEATURES

- Maximum efficiency of 98.7%, Maximum EU efficiency of 98.3%
- Multiplex MPPTs design for complex application scenarios
- 16A input supports multiple high-power modules
- Integrated DC Switches
- Smart string monitoring
- Integrated anti-PID function (Optional)
- Supports aluminum cable
- AFCI Optional

EFFICIENCY CURVE

CSI-60KW
Efficiency



HIGH RELIABILITY

- Intelligent fan-cooling
- SPD Type II for DC and AC
- Leakage current suppression technology
- DC reverse polarity protection

BROAD ADAPTIBILITY

- IP66 protection for harsh environment
- Utility interactive controls: Active power derating, reactive power control and over frequency derating
- Wide MPPT range for flexible string sizing

CSI Solar Co., Ltd. is committed to providing high quality solar products, solar system solutions and services to customers around the world. Canadian Solar was recognized as the No. 1 module supplier for quality and performance/price ratio in the IHS Module Customer Insight Survey, and is a leading PV project developer and manufacturer of solar modules, with over 63 GW deployed around the world since 2001.

SYSTEM/TECHNICAL DATA

MODEL NAME	CSI-40K-T4001A-E	CSI-50K-T4001A-E	CSI-60K-T4001A-E
INPUT (DC)			
Max. Input Voltage		1100 V _{DC}	
Start-up DC Input Voltage		195 V _{DC}	
Rated Input Voltage		600 V _{DC}	
MPPT Voltage Range		200 - 1000 V _{DC}	
MPPT No.	3	4	5
Max. String Input No.	6	8	10
Max. Input Current	3 x 32 A	4 x 32 A	5 x 32 A
Max. DC short-circuit current	3 x 40 A	4 x 40 A	5 x 40 A
OUTPUT (AC)			
Rated AC Output Power	40 kW	50 kW	60 kW
Max. AC Output Power (Apparent)	40 kVA	50 kVA	60 kVA
Rated Output Voltage		380 / 400 V _{AC}	
Grid Connection Type		3 L / N / PE	
Max Output Current	60.8 A	76 A	91.2 A
Rated Output Frequency		50 / 60 Hz	
THDi		< 3 %	
Power Factor		0.8 leading ... 0.8 lagging	
Zero Export Solution		Supported	
EFFICIENCY			
Max. Efficiency		98.7 %	
EU Efficiency		98.3 %	
ENVIRONMENT			
Protection Degree		IP66	
Cooling		Intelligent Air Cooling	
Operating Temperature Range		-30 °C to +60 °C	
Operating Humidity		0 - 100 % Non-condensing	
Operating Altitude		4000 m (> 3000 m derating)	
PROTECTION			
DC Switch		Yes	
Anti-Islanding Protection		Yes	
DC Reverse-Polarity Protection		Yes	
DC Insulation Resistance Dection		Yes	
Residual Current Monitoring		Yes	
String Monitoring		Yes	
AC Output Over Current Protection		Yes	
AC Short Circuit Protection		Yes	
Grid Monitoring		Yes	
Anti-PID Module		Optional	
AFCI		Optional	
Overvoltage Class		II (DC), III (AC)	
DC / AC SPD		DC SPD Type II / AC SPD Type II	
DISPLAY AND COMMUNICATION			
Display		LED Indicators & APP	
Communication		RS485 / WiFi (optional)	
MECHANICAL DATA			
Dimensions (W / H / D)		720 x 555 x 288 mm	
Weight	48 kg	50 kg	51 kg
DC Connection Type		MC4	
AC Connection Type		OT Terminals	
CERTIFICATION			
Safety / EMC		IEC62109, IEC 61000-6-1/2/3/4	
Grid Code		IEC61727 & IEC62116, EN50549-1	

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. CSI SOLAR CO., LTD reserves the right to make necessary adjustment to the information described herein at any time without 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.

CSI Solar Co., Ltd.

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