



THREE PHASE STRING INVERTER 15-25 kW

CSI-15kW | CSI-17kW | CSI-20kW
CSI-23kW | CSI-25kW

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 98.6% conversion efficiency, a wide operating range of 160-1000 V_{DC}, and 2 MPPTs for maximum energy harvest.



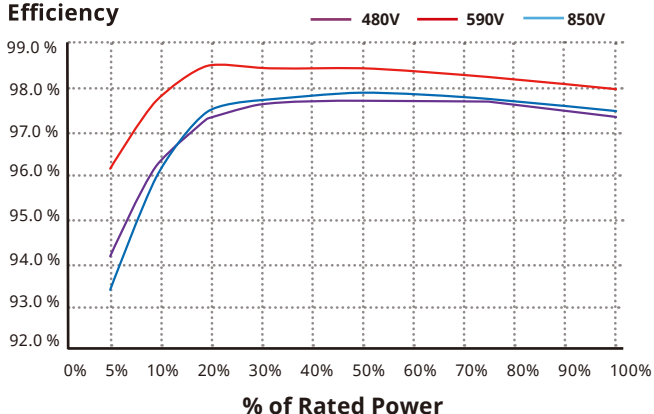
KEY FEATURES

- Maximum efficiency of 98.6%,
Maximum EU efficiency of 98.0%
- 2 MPPTs to achieve higher system efficiency
- 16A input for each string supports access to multiple high-power modules
- Integrated DC Switches
- AFCI Optional

EFFICIENCY CURVE

CSI-25KW

Efficiency



HIGH RELIABILITY

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

BROAD ADAPTIBILITY

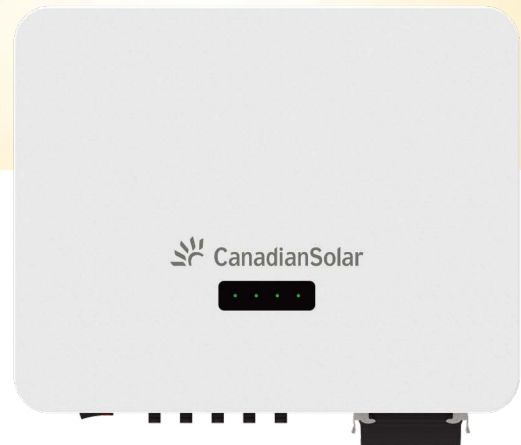
- IP66 protection for harsh environment
- Utility interactive controls: Active power derating, reactive power control and over frequency derating
- Wide MPPT range for flexible string sizing

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.



THREE PHASE STRING INVERTER 40-60 kW

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



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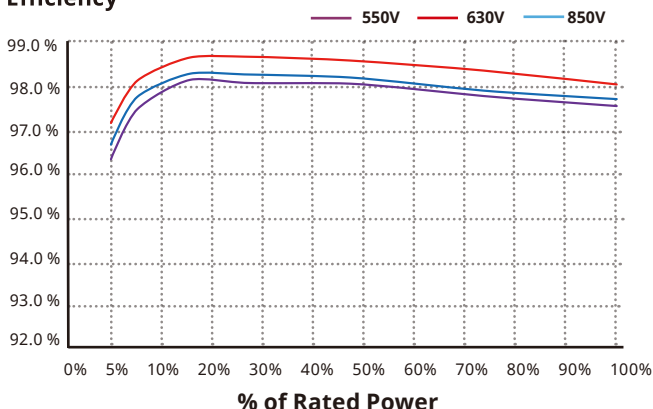
These inverters are modular design building blocks that provide high yield and enable significant BoS cost savings. They provide up to 98.7% conversion efficiency, a wide operating range of 200-1000 V_{DC}, and multi choice MPPTs for maximum energy harvesting.

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

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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.

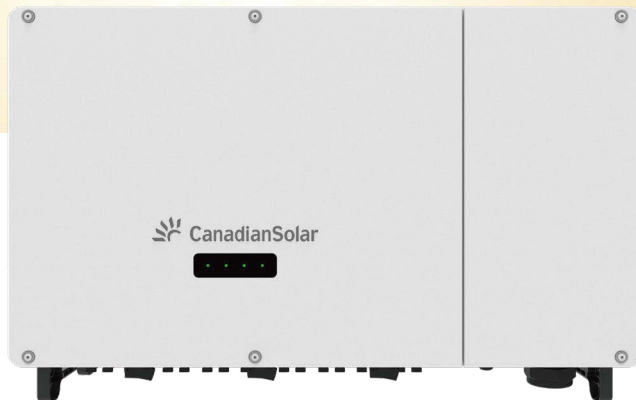
CSI Solar Co., Ltd.

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THREE PHASE STRING INVERTER 75-120 KW

CSI-75KW | CSI-100KW
CSI-110KW | CSI-120KW



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 98.5% conversion efficiency, a wide operating range of 200-1000 V_{DC}, and 6 or 9 MPPTs for maximum energy harvest.

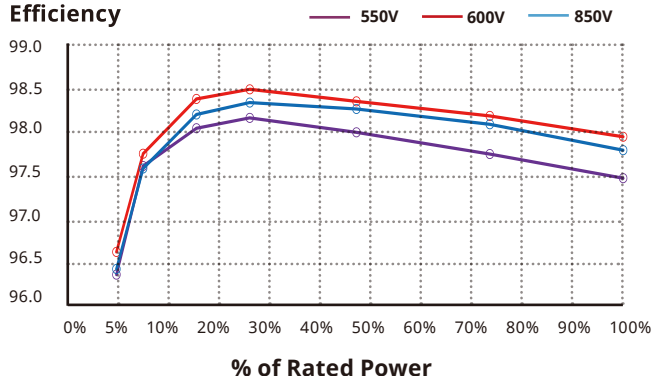
KEY FEATURES

- Maximum efficiency of 98.5%, Maximum EU efficiency of 98.1%
- 6 or 9 MPPTs to achieve higher system efficiency
- 20A input for each string, perfectly match with Hiku7 series module*
- Integrated DC Switches
- Smart string monitoring
- Integrated anti-PID function (Optional)
- Supports aluminum cable
- AFCI (Optional)

EFFICIENCY CURVE

CSI-120KW

Efficiency



* For detail information, please refer to Installation Manual.

* "20A input for each string, perfectly match with Hiku7 series module", this feature applies to the models of 6 MPPTs only.

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

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MODEL NAME	CSI-75K-T40001-E	CSI-100K-T4001A-E	CSI-100K-T4001B-E	CSI-110K-T4001A-E	CSI-110K-T4001B-E	CSI-120K-T4001A-E	CSI-120K-T4001B-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}			
Max. String Input No.	12	12	18	12	18	12	18
MPPT No.	6	6	9	6	9	6	9
Max. Input Current	6 x 40 A	6 x 40 A	9 x 32 A	6 x 40 A	9 x 32 A	6 x 40 A	9 x 32 A
Max. DC short-circuit current	6 x 50 A	6 x 50 A	9 x 40 A	6 x 50 A	9 x 40 A	6 x 50 A	9 x 40 A
OUTPUT (AC)							
Rated AC Output Power	75 kW	100 kW	100 kW	110 kW	110 kW	120 kW	120 kW
Max. AC Output Power (Apparent)	75 kVA	100 kVA	100 kVA	110 kVA	110 kVA	120 kVA	120 kVA
Rated Output Voltage				380 / 400 V _{AC}			
Grid Connection Type				3 L / N / PE			
Max Output Current	114A	152 A	152 A	167.1 A	167.1 A	182.3 A	182.3 A
Rated Output Frequency				50 / 60 Hz			
THDi				< 3 %			
Power Factor				0.8 leading ... 0.8 lagging			
Zero Export Solution				Supported			
EFFICIENCY							
Max. Efficiency				98.5 %			
EU Efficiency				98.1 %			
ENVIRONMENT							
Protection Degree				IP66			
Cooling				Intelligent Fan 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			
AFCI				Optional			
Anti-PID Module				Optional			
Overvoltage Class				II (DC), III (AC)			
DC / AC SPD				DC SPD Type II / AC SPD Type II (Type I Optional)			
DISPLAY AND COMMUNICATION							
Display				LED & APP			
Communication				RS485 / WiFi (Optional)			
MECHANICAL DATA							
Dimensions (W / H / D)				1050 x 687 x 355 mm			
Weight	88 kg	90 kg	95 kg	90 kg	95 kg	90 kg	95 kg
DC Inputs Type				MC4			
AC Outputs Type				OT Terminals (Support the AC cables Max. 240mm²)			
CERTIFICATION							
Safety / EMC				IEC62109-1/2, IEC 61000-6-2/3			
Grid Code				IEC61727 & IEC62116, EN50549-1/2, CEI0-16, CEI0-21, NRS097			

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SYSTEM/TECHNICAL DATA					
MODEL NAME	CSI-15K-T4001A-E	CSI-17K-T4001A-E	CSI-20K-T4001A-E	CSI-23K-T4001A-E	CSI-25K-T4001A-E
INPUT (DC)					
Max. Input Voltage	1100 V _{DC}				
Start-up DC Input Voltage	180 V _{DC}				
Rated Input Voltage	630 V _{DC}				
MPPT Voltage Range	160 - 1000 V _{DC}				
Max. String Input No.	4				
MPPT No.	2				
Max. Input Current	2×32 A				
Max. DC short-circuit current	2×40 A				
OUTPUT (AC)					
Rated AC Output Power	15 kW	17 kW	20 kW	23 kW	25 kW
Max. AC Output Power (Apparent)	15 kVA	17 kVA	20 kVA	23 kVA	25 kVA
Rated Output Voltage	380 V _{AC} / 400 V _{AC}				
Grid Connection Type	3 L / N / PE				
Max Output Current	22.8 A	25.8 A	30.4 A	34.9 A	37.9 A
Rated Output Frequency	50 / 60 Hz				
THDi	< 3 %				
Power Factor	0.8 leading ... 0.8 lagging				
Zero Export Solution	Support				
EFFICIENCY					
Max. Efficiency	98.5 %	98.5 %	98.6 %	98.6 %	98.6 %
EU Efficiency	98.0 %	98.0 %	98.0 %	98.0 %	98.0 %
ENVIRONMENT					
Protection Degree	IP66				
Cooling	Intelligent Air Cooling				
Operating Temperature Range	-30 °C to +60 °C				
Operating Humidity	0 - 100 %				
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				
AC Output Over Current Protection	Yes				
AC Short Circuit Protection	Yes				
Grid Monitoring	Yes				
AFCI	Optional				
DC / AC SPD	DC SPD Type II / AC SPD Type II				
DISPLAY AND COMMUNICATION					
Display	LED Indicators & APP				
Communication	WiFi(Optional)				
MECHANICAL DATA					
Dimensions (W / H / D)	435 x 520 x 194 mm				
Weight	17 kg		19 kg		
DC Inputs Type	MC4				
AC Outputs Type	Quick Connection Plug				
CERTIFICATION					
Safety / EMC	IEC62109, IEC 61000-6-1/2/3/4				
Grid Code	IEC61727 & IEC62116				

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