

THREE PHASE STRING INVERTER 75-120K W

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

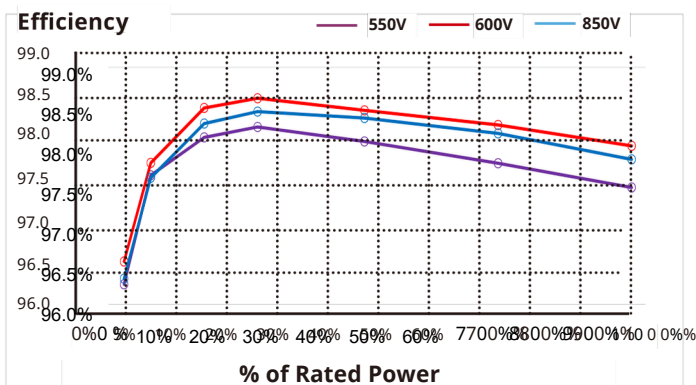
CSI Solar's grid-tied, transformer-less string inverters help to accelerate the use of three-phase string architecture for industrial and commercial rooftop applications. These inverters are modular design building blocks that provide high yield and enable significant BoS cost savings. They provide up 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

EFFICIENCY CURVE

CSI-120KW



* 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

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-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							
Start-up DC Input Voltage	1100 V _{DC}						
Rated Input Voltage	195 V _{DC}						
MPPT Voltage Range	600 V _{DC}						
Max. String Input No.	200 - 1000 V _{DC}						
MPPT No.	12	12	18	12	18	12	18
Max. Input Current	6	6	9	6	9	6	9
Max. DC short-circuit current	6 x 40 A	6 x 40 A	9 x 30 A	6 x 40 A	9 x 30 A	6 x 40 A	9 x 30 A
OUTPUT (AC)							
Rated AC Output Power	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
Max. AC Output Power (Apparent)	75k W	100 kW	100 kW	110 kW	110 kW	120 kW	120 kW
Rated Output Voltage	75k VA	100 kVA	100 kVA	110 kVA	110 kVA	120 kVA	120 kVA
Grid Connection Type	380 / 400 V _{AC}						
Max Output Current	3 L / N / PE						
Rated Output Frequency	114 A	152 A	152 A	167.1 A	167.1 A	182.3 A	182.3 A
THDi	50 / 60 Hz						
Power Factor	< 3 %						
Zero Export Solution	0.8 leading ... 0.8 lagging						
Supported							
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						
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. 240mm ²)						
CERTIFICATION							
Safety / EMC	IEC62109-1/2, IEC 61000-6-2/3						
Grid Code	IEC61727 & IEC62116, EN50549-1/2						

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.

