



THREE PHASE STRING INVERTER 250 - 350 kW

CSI-250K-T8001A-E

CSI-333K-T8001A-E

CSI-350K-T8001A-E

CSI-333K-T8001B-E

CSI-350K-T8001B-E

Canadian Solar's grid-tied, transformer-less string inverters help accelerate the use of three-phase string architecture for medium ground-mount applications. These inverters are modular design building blocks that provide high yield and enable significant Bos cost savings. They provide up to 99.01% conversion efficiency, a wide operating range of 500 - 1500 VDC and 12 or 16 MPPTs for maximum energy harvesting.

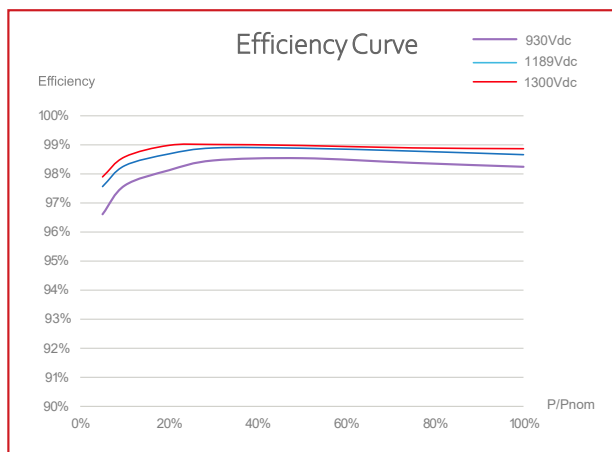


KEY FEATURES

- Maximum efficiency of 99.01 %
- EU efficiency of 98.8 %
- Up to 16 MPPTs to achieve higher system efficiency
- High current inputs to support high power and bifacial modules
- Support aluminum cable
- Smart IV Curve Scanning
- DC/AC ratio up to 1.5
- Power line communication

EFFICIENCY CURVE

CSI-333K-T8001A-E



HIGH RELIABILITY

- IP66 protection level
- Intelligent redundant air cooling design
- Built in over-voltage and over-current protection
- DC reverse polarity and AC short circuit protection
- Integrated PID recovery

BROAD ADAPTABILITY

- Utility interactive controls: Active power derating, reactive power control and over frequency derating
- Wide MPPT range for flexible string sizing
- High switching frequency and ultra fast MPPT for maximum efficiency over a wide load range

SYSTEM TECHNICAL DATA

MODEL NAME	CSI-250K-T8001A-E	CSI-333K-T8001A-E	CSI-333K-T8001B-E	CSI-350K-T8001A-E	CSI-350K-T8001B-E
INPUT (DC)					
Max. DC Input Voltage	1500 V _{dc}				
Start-up DC Input Voltage	550 V _{dc}				
MPPT Operating Voltage Range	500 - 1500 V _{dc}				
MPPT Voltage Range for Full Load	880 - 1300 V _{dc}				
Rated Input Voltage	1200 V _{dc}				
Max. Input Current per String	20 A _{dc}	20 A _{dc}	20 A _{dc} ¹	20 A _{dc}	20 A _{dc} ¹
Max. Input Current per MPPT	40 A _{dc}	40 A _{dc}	32 A _{dc}	40 A _{dc}	32 A _{dc}
Max. DC short-circuit current per MPPT	60 A _{dc}	60 A _{dc}	60 A _{dc}	60 A _{dc}	60 A _{dc}
MPPT No.	12	12	16	12	16
Max. string input number	24	24	32	24	32
OUTPUT (AC)					
Max. AC Output Power (Apparent)	250 kVA	333 kVA	333 kVA	352 kVA	352 kVA
Rated AC Output Power	250 kW	333 kW	333 kW	350 kW	350 kW
Rated Output Voltage	800 V				
Grid Connection Type	3Φ / PE				
Max Output Current	180 A	240 A	240 A	254 A	254 A
Rated Output Frequency	50 Hz / 60 Hz				
THDi	<2 % (rated power)				
Power Factor	0.8 leading – 0.8 lagging				
EFFICIENCY					
Max. Efficiency	99.01 %				
EU Efficiency	98.8 %				
SAFETY & PROTECTION					
Anti-Islanding Protection	Integrated				
DC Insulation Resistance Detection	Integrated				
Residual Current Monitoring	Integrated				
String Monitoring	Integrated				
AC Output Over Current Protection	Integrated				
AC Short Circuit Protection	Integrated				
Grid Monitoring	Integrated				
Smart IV Curve Scanning	Integrated				
PID recovery	Integrated				
Overvoltage Class	II (DC), III(AC)				
DC / AC SPD	DC SPD Type II / AC SPD Type II				
GENERAL PARAMETERS					
Display	LED + APP				
Communication	RS485 / PLC / WiFi / LAN				
Operating ambient temperature range	-30 to 60 °C				
Operating Altitude	4000 m (>3000 derating)				
Dimensions (W / H / D)	1130 x 894 x 372 mm				
Protection Degree	IP66				
Weight	120 kg				
DC Inputs Type	MC4-EVO2 (4 - 6 mm ² , optional 10 mm ²)				
AC Outputs Type	OT/DT Terminals support 400 mm ²				
CERTIFICATION					
Safety	IEC 62109-1/2				
EMC Standard	IEC 61000-6-2/4				
Grid Code	IEC 61727 & IEC 62116, PO 12.3, NTS2.1, CEI 0-16				

1: Single string per MPPT configuration

The specifications and features contained in this datasheet may deviate slightly from the actual product due to 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 further notice.

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