NEW

CanadianSolar

THREE PHASE STRING INVERTER 333 - 350 kW

CSI-333K-T8001A-E | CSI-333K-T8001B-E
CSI-350K-T8001A-E | CSI-350K-T8001B-E

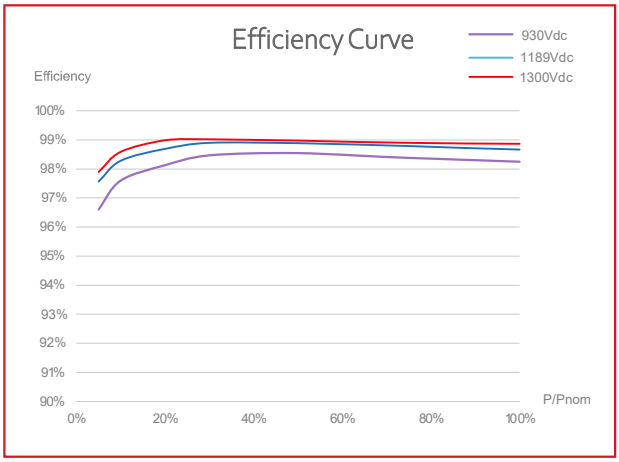
Canadian Solar's grid-tied, transformer-less string inverters help accelerate the use of three-phase string architecture for medium ground-mount applications. These inverters are modular design building blocks that provide high yield and enable significant Bos cost savings. They provide up to 99.01% 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 to16 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

CSI Solar Co., Ltd.
199 Lushan Road, SND, Suzhou, Jiangsu, China, 215129, www.csisolar.com

SYSTEM TECHNICAL DATA

MODEL NAME	CSI-333K-T800 1A-E	CSI-333K-T800 1B-E	CSI-350K-T800 1A-E	CSI-350K-T800 1B-E
INPUT (DC)				
Max. DC Input Voltage	1500 Vdc			
Start-up DC Input Voltage	550 Vdc			
MPPT Operating Voltage Range	500 - 1500 Vdc			
MPPT Voltage Range for Full Load	880 - 1300 Vdc			
Rated Input Voltage	1200 Vdc			
Max. Input Current per String	20 Adc	20 Adc [1]	20 Adc	20 Adc [1]
Max. Input Current per MPPT	40 Adc	32 Adc	40 Adc	32 Adc
Max. DC short-circuit current per MPPT	60 Adc	60 Adc	60 Adc	60 Adc
MPPT No.	12	16	12	16
Max. string input number	24	32	24	32
OUTPUT (AC)				
Max. AC Output Power (Apparent)	352 kVA @ 35 ℃ / 333 kVA @40 ℃ / 320 kVA @45 ℃ / 295 kVA @50 ℃			
Rated AC Output Power	333 kW		350 kW	
Rated Output Voltage	800 V			
Grid Connection Type	3Φ / PE			
Max Output Current	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 ℃			
Operating Altitude	4000 m (>3000 derating)			
Dimensions (W / H / D)	1130 x 894 x 372 mm			
Integrated protection	IP66			
Weight	120 kg			
DC Inputs Type	MC4-EVO2 (4 - 6 mm², optional 10 mm²)			
AC Outputs Type	OT/DT Terminals support 400 mm²			
CERTIFICATION				
Safety	IEC62109-1/2			
EMC Standard	IEC 61000-6-2/4			
Grid Code	IEC61727 & IEC62116, EN 50530, IEC 61683, PO 12.3, NTS2.1			

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.

CSI Solar Co., Ltd.
199 Lushan Road, SND, Suzhou, Jiangsu, China, 215129, www.csisolar.com