



THREE PHASE STRING INVERTER 250-350K

CSI-250K-T8001A-E

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.

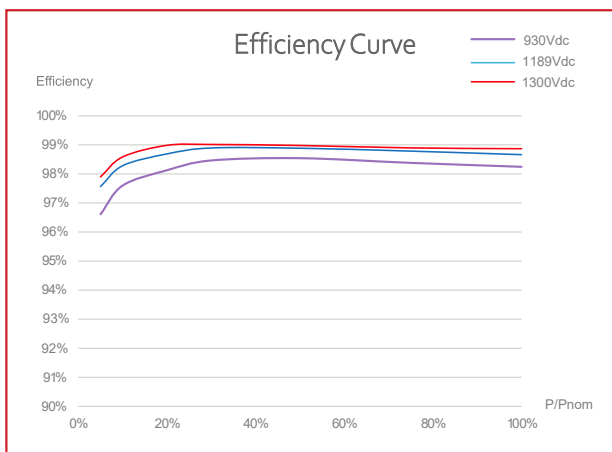


KEY FEATURES

- Maximum efficiency of 99.01 %
- EU efficiency of 98.8 %
- Up 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-350K-T8001A-E



HIGH RELIABILITY

- IP66 protection level
- Intelligent 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
DC INPUT					
Max. PV array power	375kWp STC	499.5kWp STC	499.5kWp STC	525kWp STC	525kWp STC
Max. DC Input Voltage	1500 V				
Start-up DC Input Voltage	550 V				
MPPT Operating Voltage Range	500-1500 V				
Rated Input Voltage	1200 V				
Max. DC Input Current	12×40 A	12×40 A	16×32 A	12×40 A	16×32 A
Max. Short-Circuit Current	60 A	60 A	60 A	60 A	60 A
Number of MPP Trackers	12	12	16	12	16
Number of DC Inputs	24	24	32	24	32
AC OUTPUT					
Rated AC Output Power @35℃	250 kW	333 kW	333 kW	350 kW	350 kW
Max. AC Output Power (Apparent)	250 kVA	333 kVA	333 kVA	352 kVA	352 kVA
Rated Output Voltage	800 V				
Grid Connection Type	3Φ / PE				
Max Output Current	180.4 A	240 A	240 A	254 A	254 A
Rated Output Frequency	50 Hz / 60 Hz				
THDi	< 2% (rated power)				
Power Factor	> 0.99 / 0.8 leading – 0.8 lagging				
EFFICIENCY					
Max. Efficiency	99.01%				
EU Efficiency	98.8%				
ENVIROMENT					
Degree of protection	IP66				
Cooling	Intelligent Fan cooling				
Operating ambient temperature range	-30℃ ~ 60℃				
Operating Humidity	0-100% non-condensing				
Operating Altitude	4000 m (>3000 m derating)				
SAFETY & PROTECTION					
DC Reverse-Polarity Protection	Yes				
Anti-Islanding Protection	Yes				
DC Insulation Resistance Detection	Yes				
Residual Current Monitoring	Yes				
String Monitoring	Yes				
AC Output Over Current Protection	Yes				
AC Short Circuit Protection	Yes				
Grid Monitoring	Yes				
Smart IV Curve Scanning	Yes				
Smart DC Switch	Yes				
PID Recovery	Yes				
Overvoltage Class	II (DC) , III (AC)				
DC / AC SPD	DC SPD Type II / AC SPD Type II				
SCR < 1.15	Yes (1.13)				
GENERAL PARAMETERS					
Display	LED + APP				
Communication	RS485 / PLC				
Dimensions (W / H / D)	1130 X 894 X 372 mm				
Weight	120 kg				
AC Outputs Type	MC4 - EVO2				
DC Inputs Type	OT/DT Terminals support 400 mm²				
Certification					
Compliance	IEC62109-1/2, IEC 61000-3-11/12, IEC 61000-6-2/4, IEC 61683,EN 50530, IEC 62116&IEC 61727,P.O.12.3, NTS 2.1				

*Any system with a DC/AC ratio being less than 1.5 is within our warranty scope. Please contact local Canadian Solar technical support for further confirmation if otherwise.

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