

THREE PHASE STRING INVERTER 25-40 KW

CSI-25K-T400 | CSI-30K-T400
CSI-33K-T400 | CSI-36K-T400 | CSI-40K-T400

CSI Solar's grid-tied, transformer-less string inverters help to accelerate the use of three-phase string architecture for commercial rooftop and small ground-mount applications. An NRTL approved, cost-effective alternative to MLPE, 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 3/4 MPPTs for maximum energy harvest.



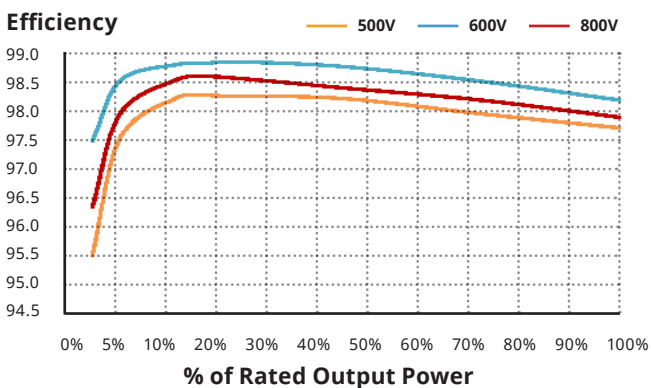
standard warranty, extension up to 15 years

KEY FEATURES

- Maximum efficiency of 98.7%, Maximum EU efficiency of 98.3%
- 3/4 MPPTs to achieve higher system efficiency
- Strings intelligent monitoring, Smart I-V Curve Diagnosis supported
- Up to 50% DC input oversize, 16A input for each PV string

EFFICIENCY CURVE

CSI-40K-T400GL03-E



For detailed information, please refer to the Installation Manual.

CSI SOLAR CO., LTD.

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HIGH RELIABILITY

- Advanced thermal design and convection cooling
- Built-in over-voltage and over-current protection
- DC reverse polarity and AC short circuit protection
- Fuse free design

BROAD ADAPTIBILITY

- IP66 rated for outdoor application
- AFCI protection, proactively reduces fire risk
- Night time PID recovery function, increases overall system yield (optional)
- 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. is committed to providing high quality solar photovoltaic modules, solar energy and battery storage solutions to customers. The company was recognized as the No. 1 module supplier for quality and performance/price ratio in the IHS Module Customer Insight Survey. Over the past 20 years, it has successfully delivered over 63 GW of premium-quality solar modules across the world.

SYSTEM/TECHNICAL DATA

MODEL NAME	CSI-25K-T400GL03-E	CSI-30K-T400GL03-E	CSI-33K-T400GL03-E	CSI-36K-T400GL03-E	CSI-40K-T400GL03-E
DC INPUT					
Max. DC Input Voltage			1100 V _{DC}		
Start-up DC Input Voltage/Power			180 V _{DC}		
Number of MPP Trackers	3				4
MPPT Voltage Range			200 - 1000 V _{DC}		
Max. Input Current (Imp)	96 A (32 A per MPPT)				128 A (32 A per MPPT)
Max. Short Circuit Current (Isc)	150 A (50 A per MPPT)				200 A (50 A per MPPT)
Number of DC Inputs	6 (2 per MPPT)				8 (2 per MPPT)
DC Switch			Integrated		
AC OUTPUT					
Rated AC Output Power	25 kW	30 kW	33 kW	36 kW	40 kW
Max. AC Output Power	27.5 kW	33 kW	36.3 kW	39.6 kW	44 kW
Rated Output Voltage*			220/380 V _{AC} , 230/400 V _{AC}		
Grid Connection Type			3 W / N / PE		
Rated Grid Output Current	38.0 A / 36.1 A	45.6 A / 43.3 A	50.1 A / 47.6 A	54.7 A / 52.0 A	60.8 A / 57.7 A
Max Output Current	41.8 A	50.2 A	55.1 A	60.2 A	66.9 A
Rated Output Frequency			50 / 60 Hz		
Power Factor			> 0.99 (0.8 leading ... 0.8 lagging)		
Current THD			< 3%		
SYSTEM					
Max. Efficiency	98.5 %		98.6 %		98.7 %
EU Efficiency	98.1 %		98.2 %		98.3 %
Night Consumption			< 1 W		
Anti-PID Module			Optional		
ENVIRONMENT					
DC / AC SPD			DC SPD Type II / AC SPD Type II		
Protection Degree			IP66		
Cooling			Natural Convection Cooling		
Operating Temperature Range			- 25 °C to + 60 °C		
Operating Humidity			0 - 100 % Condensing		
Operating Altitude			4000 m		
DISPLAY AND COMMUNICATION					
Display			LCD		
Communication			RS485, Optional: Wi-Fi, GPRS		
MECHANICAL DATA					
Dimensions (W / H / D)			647 x 629 x 252 mm		
Weight			37 kg		
Installation Angle			0 ~ 15 Degrees from Vertical		
DC Inputs			MC4		
SAFETY					
Safety and EMC Standard			IEC 62109-1/2, IEC 61000-6-1/2/3/4		
Grid Standard			IEC 62116, IEC 61727		

*The "Rated Output Voltage Range" may differ according to specific grid standard.

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.

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