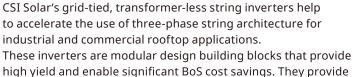




# THREE PHASE STRING INVERTER 40-60 kW

## CSI-40kW | CSI-50kW | CSI-60kW



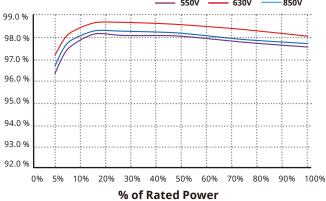
high yield and enable significant BoS cost savings. They provide up to 98.7% conversion efficiency, a wide operating range of 200-1000 V<sub>DC</sub>, and multi choice MPPTs for maximum energy harvesting.

## **KEY FEATURES**

- Maximum efficiency of 98.7%,
  Maximum EU efficiency of 98.3%
- Multiplex MPPTs design for complex application scenarios
- 16A input supports multiple high-power modules
- Integrated DC Switches
- · Smart string monitoring
- Integrated anti-PID function (Optional)
- Supports aluminum cable
- · AFCI Optional

## **EFFICIENCY CURVE**







#### 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.

MODEL NAME	CSI-40K-T4001A-E	CSI-50K-T4001A-E	CSI-60K-T4001A-E
INPUT (DC)	COLTON-1400 IA-E	C31-30K-1400 IA-L	CJI-UUN-14UUIA-E
Max. Input Voltage		1100 Vpc	
Start-up DC Input Voltage	1100 Vpc		
	195 V <sub>DC</sub>		
Rated Input Voltage	600 Vpc		
MPPT Voltage Range	200 - 1000 Vpc		
MPPT Voltage Range for Full Load	2	550-800 <b>V</b> <sub>DC</sub>	F
MPPT No.	3	4	5
Max. String Input No.	6	8	10
Max. Input Current	3 x 32 A	4 x 32 A	5 x 32 A
Max. DC short-circuit current	3 x 40 A	4 x 40 A	5 x 40 A
OUTPUT (AC)			:
Rated AC Output Power	40 kW	50 kW	60 kW
Max. AC Output Power (Apparent)	40 kVA	50 kVA	60 kVA
Rated Output Voltage		380 / 400 <b>V</b> AC	
Grid Connection Type		3 L / N / PE	***************************************
Max Output Current	60.8 A	76 A	91.2 A
Rated Output Frequency		50 / 60 Hz	
「HDi		< 3 %	
Power Factor	0.8 leading 0.8 lagging		
Zero Export Solution	Supported		
FFICIENCY			•
Max. Efficiency	98.7 %		
EU Efficiency	98.3 %		
ENVIRONMENT	<u>i</u>		
Protection Degree		IP66	
Cooling	Intelligent Air Cooling		
	-30 °C to +60 °C		
Operating Temperature Range			
Operating Humidity	0 - 100 % Non-condensing		
Operating Altitude	4000 m (> 3000 m derating)		
PROTECTION			
DC Switch	Yes		
Anti-Islanding Protection	Yes		
OC Reverse-Polarity Protection	Yes		
OC 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		
AFCI	Optional		
Overvoltage Class	II (DC), III (AC)		
DC / AC SPD	DC SPD Type II / AC SPD Type II		
DISPLAY AND COMMUNICATION			***************************************
Display		LED Indicators & APP	
Communication	RS485 / WiFi (optional)		
MECHANICAL DATA	<u>i</u>	(operation)	
Dimensions (W / H / D)		720 x 555 x 288 mm	•
Weight	48 kg	720 x 555 x 288 mm	51 kg
	40 ky	<del>.</del>	эт ку
OC Connection Type	MC4		
AC Connection Type		OT Terminals	
CERTIFICATION			
Safety / EMC		IEC62109, IEC 61000-6-1/2/3/4	

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.