

# THREE PHASE STRING INVERTER 15-20 KW

# CSI-15K-T220 | CSI-20K-T220

Canadian 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 97.8% conversion efficiency, a wide operating range of 200-1000  $\rm V_{\rm DC}$ , and four MPPTs for maximum energy harvest.





standard warranty, extension up to 20 years

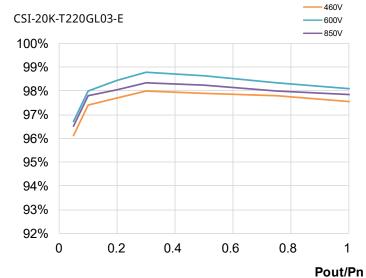
#### **KEY FEATURES**

- Maximum efficiency of 97.8%,
  Maximum EU efficiency of 97.3%
- · ThreeMPPTs to achieve higher system efficiency
- Strings intelligent monitoring, Smart I-V Curve Diagnosis supported
- Up to 30% DC input oversize, 16A input for each PV string

#### **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

#### **EFFICIENCY CURVE**



For detailed information, please refer to the Installation Manual.

## **BROAD ADAPTIBILITY**

- IP66 rated for outdoor application
- Utility interactive controls: Active power derating, reactive power control and over frequency derating
- Integrated DC load rated disconnects
- 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 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 55 GW deployed around the world since 2001.

## CSI SOLAR CO., LTD.

MODEL NAME	CSI-15K-T220GL03-E		CSI-20K-T220GL03-E
	C31-131(-1220GL03-L		CO1 ZOIN-1 ZZUGLU3-E
nput DC	22.5.1.W		20.1.W
Recommended max. PV power	22.5 kW	11001/	30 kW
Max. input voltage		1100 V	
Rated voltage	600 V		
Start-up voltage	180 V		
MPPT voltage range	200-1000 V		
Max. input current	32 A / 32 A / 32 A		
Max. short circuit current	40 A / 40 A / 40 A		
MPPT number/Max. input strings number		3/6	
Output AC			
Rated output power	15 kW		20 kW
Max. apparent output power	16.5 kVA		22 kVA
Max. output power	16.5 kW		22 kW
Rated grid voltage	3/PE, 220 V		
Rated grid frequency	50 Hz / 60 Hz		
Rated grid output current	39.4 A		52.5 A
lax. output current	43.3 A		57.7 A
ower factor	>0.99 (0.8 leading - 0.8 lagging)		
HDi	<3%		
fficiency			
lax.efficiency		97.8%	
U efficiency		97.3%	
rotection			
OC reverse-polarity protection		Yes	
hort circuit protection	Yes		
Output over current protection	Yes		
urge protection	DC Type II / AC Type II		
irid monitoring	Yes		
Anti-islanding protection	Yes		
Femperature protection	Yes		
Strings monitoring	Yes		
/V Curve scanning	Yes		
ntegrated AFCI (DC arc-fault circuit protection)	Yes <sup>(1)</sup>		
ntegrated PID recovery	Optional		
ntegrated PID recovery	Yes		
General Data		162	
Dimensions (W*H*D)	647*629*252 mm		
Veight			
	37 kg		
opology	Transformerless		
elf-consumption (night)	<1W		
Operating ambient temperature range	-25~+60°C		
elative humidity	0-100%		
ngress protection	IP66		
ooling concept	Intelli	Intelligent redundant fan-cooling	
1ax. operation altitude	4000 m		
Compliance	UL 1741, IEEE 1547	, UL 1699B, UL 1998,	FCC, UL 1741SA
eatures			
OC connection	MC4 connector		
AC connection	OT terminal		
\\	LCD		
isplay			

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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