

SINGLE PHASE STRING INVERTER

CSI-4KTL1P-GI-FL | CSI-5KTL1P-GI-FL

KEY FEATURES

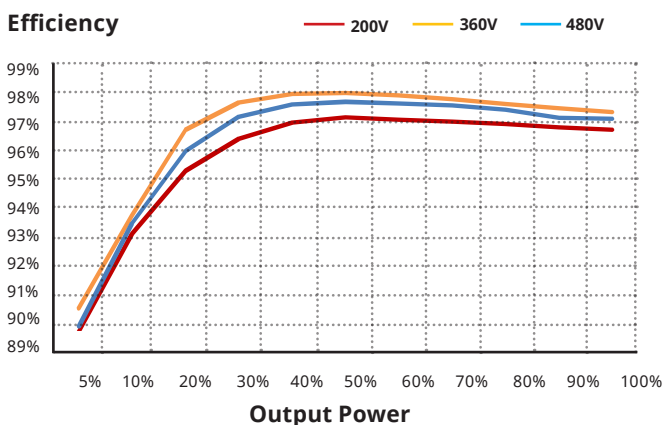
- Max. efficiency up to 98%, wide input voltage range
- Integrated DC switch
- Transformerless topology
- Compact design
- Flexible communication connection: supports RF, WiFi, Ethernet



Standard warranty, extension up to 20 years

EFFICIENCY CURVE

CSI-5KTL1P-GI @220 Vac



HIGH RELIABILITY

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

CSI SOLAR CO.,LTD. is committed to providing high quality solar products, solar system solutions and services to customers around the world. No. 1 module supplier for quality and performance/price ratio in IHS Module Customer Insight Survey. As a leading PV project developer and manufacturer of solar modules with over 46 GW deployed around the world since 2001.

For detailed information, please refer to the Installation Manual.

CSI SOLAR CO.,LTD.

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TECHNICAL DATA		
MODEL NAME	CSI-4KTL1P-GI-FL	CSI-5KTL1P-GI-FL
DC INPUT		
Max. PV power	4.6 kW	5.8 kW
Max. DC input voltage	600 V _{DC}	
Start-up DC Input Voltage	120 V _{DC}	
Number of MPP Trackers	2	
MPPT Voltage Range	90 - 520 V _{DC}	
Max. Input Current	11 A	
Max. Short Circuit Current	17.2 A / 17.2 A	
Number of DC Inputs	2	
DC Switch	Integrated	
AC OUTPUT		
Rated AC Output Power	4 kW	5 kW
Max. AC Output Power	4.4 kW	5 kW
Rated Output Voltage	220 / 230 V _{AC}	
Output Voltage Range ¹	160 - 285 V _{AC}	
Grid Connection Type	1 Φ / PE	
Rated Grid Output Current	18.2 A	22.7 A
Max. Output Current	21 A	25 A (21.7 for AUS)
Rated Output Frequency	50 / 60 Hz	
Output Frequency Range ²	47 - 52 / 57 - 62 Hz	
Power Factor	> 0.99 (0.8 leading ... 0.8 lagging)	
Current THD	< 3%	
SYSTEM		
Topology	Transformerless	
Max. Efficiency	98.1 %	
EU Efficiency	97.3 %	
MPPT Efficiency	> 99.5 %	
Night Consumption	< 1 W	
ENVIRONMENT		
Protection Degree	IP65	
Cooling	Natural convection	
Operating Ambient Temperature Range	-25 °C to +60 °C	
Storage Temperature Range	-40 °C to +70 °C	
Operating Humidity	0 ~ 100 %	
Operating Altitude	4000 m	
Audible Noise	< 20 dBA @ 1 m	
DISPLAY AND COMMUNICATION		
Display	LCD	
Communication Connections	WIFI / RS485 Optional	
MECHANICAL DATA		
Dimensions (W / H / D)	310 x 543 x 160 mm	
Net Weight ³	11.5 kg	
Installation Angle	0 ~ 15 Degrees from Vertical	
DC Inputs	MC4	
SAFETY		
Safety and EMC Standard	IEC62109-1/-2, NB/T 32004	
Grid Standard	EN50438, G83/2, G59/3, AS4777.2:2015, VDE0126-1-1, IEC61727, VDE N4105, NBR-16149/NBR-16150	

1. "Output Voltage Range" may differ according to specific grid standard.
2. "Output Frequency Range" may differ according to specific grid standard.
3. "Net Weight" tolerance \pm 1kg

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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