



Single Phase On-Grid Solar Inverter

OPTONICA
SOLAR

Efficient
Higher revenue

- 2 MPP Trackers , Max. input current per string: 20A
- 150% DC Input Oversizing
- Compatible with high power modules


Intelligent
Simple O&M

- Smart I-V Curve Diagnosis Function: locate PV string faults accurately and automatically detect faults
- Intelligent Fault Detection: ac-side voltage and current waveforms real-time recorded, fast fault location
- Support RS485/WiFi/4G: remote monitoring and operation via PC or mobile phones


Reliable
Worry free

- IP66 Protection Degree: support outdoor installation
- DC & AC Type II SPD: prevent lightning damage
- AFCI Function (Optional): when an arc-fault is detected the inverter immediately stops operation

SKU:9486

	XG5KTL
Input (DC)	
Max. Input Power	12kW
Max. Input Voltage	600V
Start Voltage	80V
Rated Input Voltage	360V
Full-load MPP Voltage Range	250V ~ 480V
MPPT Voltage Range	80V ~ 560V
Number of MPP Trackers	2
Number of String per MPPT	1/1
Max. Current per MPPT	20A
Max. Short Circuit Current per MPPT	26A
Output (AC)	
Max. Output Current	40A
Rated Output Power	8kW
Max. Output Power	8.8kVA
Rated Grid Frequency	50Hz / 60Hz
Rated Grid Voltage	220Vac / 230Vac / 240Vac
Power Factor	>0.99 (0.8 leading~0.8 lagging)
THDi	<3% (Rated Power)
Efficiency	
Max. Efficiency	98.10%
European Efficiency	97.30%
MPPT Efficiency	99.90%
Protection	
DC reverse polarity protection	Yes
Anti-islanding protection	Yes
AC short circuit protection	Yes
Residual current monitoring unit	Yes
Insulation resistance monitoring	Yes
Ground fault monitoring	Yes
Grid monitoring	Yes
PV string monitoring	Yes
Surge protection	Type II
AFCI protection	Optional
Communication	
Display	LED / LCD / WiFi+App
Communication	RS485 / WiFi / 4G
Standard Compliance	
Grid Connection Standards	IEC 61727, IEC 62116, IEC 60068, IEC 61683, VDE-AR-N 4110:2018, VDE-AR-N 4105:2018, VDE-AR-N 4120:2018, EN 50549, AS/NZS 4777.2:2020, CEI 0-21, VDE 0126-1-1/A1 VFR 2014, UTE C15-712-1:2013, DEWA DRRG, NRS 097-2-1, MEA/PEA, C10/11, G98/G99
Safety / EMC	IEC 62109-1:2010, IEC 62109-2:2011, EN 61000-6-2:2005, EN 61000-6-3:2007/A1:2011
General Data	
Dimensions (W x H x D)	380 x 380 x 160 mm
Weight	13kg
Operating Temperature Range	-30° C ~ +60° C
Cooling Method	Smart air cooling
Protection Degree	IP66
Max. Operating Altitude	4000m
Relative Humidity	0 ~ 100%
Topology	Transformerless
Night Power Consumption	<1W

Ⓐ : For AS4777, Rated Output Power of XG5KTL is 4999W.

Ⓑ : For VDE-AR-N 4105, Max. Output Power of XG4K6TL is 4600VA. For AS4777, Max. Output Power of XG4K6TL is 4999VA.

Ⓒ : For AS4777, Max. Output Power of XG5KTL is 4999VA.

Ⓓ : For AS4777, Max. Output Current of XG4K6TL and XG5KTL is 21.7A.