SOFAR 1-5KTL3-G3

1.1 / 1.6 / 2.2 / 2.7 / 3 / 3.3 / 4 / 5 kW

Single-phase string inverter



High yield

- Low start-up voltage, wide MPPT range
- Max. input current 20A, suitable for high-power modules

Easy installation

- Compact and lightweight design

Assured safety

- AFCI function supported (optional)
- IP65-rated for outdoor use

www.sofarsolar.com

© As of March 2026, SOFARSOLAR Co.,Ltd. The depiction of colors and shape of the product may differ from the original. SOFAR reserves the right to make changes or improvements to the products without prior notice. Ordering information is valid for specialist retailers. All brands or logos are trademarks or registered trademarks of their respective owners. All rights, technical modifications, and errors reserved.

Model	SOFAR 1.1KTL3-G3	SOFAR 1.6KTL3-G3	SOFAR 2.2KTL3-G3	SOFAR 2.7KTL3-G3	SOFAR 3KTL3-G3	SOFAR 3.3KTL3-G3	SOFAR 4KTL3-G3	SOFAR 5KTL3-G3
Input (DC)								
Max. input voltage	550V							600V
Rated input voltage	360V							
Start-up voltage	70V							
MPPT operating voltage range	50-550V							50-600V
Full load MPPT voltage range	100-500V	110-500V	160-500V			172-500V	208-500V	250-500V
Number of MPP trackers	1							
Number of DC inputs	1							
Max. input MPPT current	20A							
Max. input short circuit current	25A							
Output (AC)								
Rated output power	1100W	1600W	2200W	2700W	3000W	3300W	4000W	5000W
Max. apparent power	1100VA	1600VA	2200VA	2700VA	3000VA	3300VA	4000VA	5000VA
Max. output current	5.3A	7.7A	10.6A	13A	14.5A	16A	19.3A	24.1A
Rated output voltage	L/N/PE, 220Vac, 230Vac							
Output voltage range	180Vac-276Vac							
Rated output frequency	50 / 60Hz							
Output frequency range	45Hz-55Hz / 55Hz-65Hz							
Active power adjustable range	0-100%							
THDi	<3%							
Power factor	0.8 leading-0.8 lagging							
Efficiency								
Max. efficiency	97.7%							
European efficiency	97.2%							
Protection								
DC reverse polarity protection	Yes							
Anti-islanding protection	Yes							
Leakage current protection	Yes							
Ground fault monitoring	Yes							
PV-array string fault monitoring	Yes							
DC switch	Yes							
AFCI	Optional							
SPD	PV: Type III, AC: Type III							
General Data								
Ambient temperature range	-30 ˚C to +60 ˚C							
Self-consumption at night	<1 W							
Topology	Transformerless							
Degree of protection	IP65							
Allowable relative humidity range	0-100 %							
Max. operating altitude	4000m (>2000m derating)							
Cooling	Natural							
Dimension (W×H×D)	321×260.5×131.5 mm							321×260.5×151.5 mm
Weight	≤7kg							≤7.3kg
Display	LCD + APP							
Communication	RS485 / Wi-Fi							
Standard	IEC/EN 61000-6-1/3, IEC/EN 62109-1/2, EN 55011,IEC 62116, IEC 61727, IEC 61683, IEC 60068-1/2/14/30, IS 16169 / IS 16221(BIS) G98, G99, C10/11, VDE-AR-N 4105, VDE V 0126-1-1, EN 50549-1/10							

*All specifications are subject to change without notice.