



SOFAR

3.3K ... 12KTLX-G3

3.3 / 4.4 / 5.5 / 6.6 / 8.8 / 11 / 12 kW

THREE-PHASE

- Maximum efficiency 98.6%
- Maximum DC input voltage 1100 V
- Remote firmware upgrade
- Type II SPD for both DC and AC side

DUAL-MPPT

- Low start-up voltage, wide MPPT voltage
- Smart string level monitoring
- Natural cooling, no fans, low noise

Datasheet	SOFAR 3.3KTLX-G3	SOFAR 4.4KTLX-G3	SOFAR 5.5KTLX-G3	SOFAR 6.6KTLX-G3	SOFAR 8.8KTLX-G3	SOFAR 11KTLX-G3	SOFAR 12KTLX-G3
Input (DC)							
Recommended max. PV input power (Wp)	4500	6000	7500	9000	12000	15000	18000
Max. DC power for single MPPT (W)	4500	6000		7500		7500 / 15000	
Number of MPP trackers	2						
Number of DC inputs	1 / 1					1 / 1	1 / 2
Max. input voltage (V)	1100						
Start-up voltage (V)	160						
Rated input voltage (V)	650						
MPPT operating voltage range (V)	140 – 1000						
Full power MPPT voltage range (V)	160 – 850	190 – 850	240 – 850	290 – 850	380 – 850	420 – 850	460 – 850
Max. input MPPT current (A)	15 / 15						30 / 15
Max. input short circuit current per MPPT (A)	22.5 / 22.5						45 / 22.5
Output (AC)							
Rated power (W)	3000	4000	5000	6000	8000	10000	12000
Max. AC power (VA)	3300	4400	5500	6600	8800	11000	13200
Max. output current (A)	5	6.7	8.3	10	13.3	16.7	20
Rated grid voltage	3 / N / PE, 230 / 400						
Grid voltage range	310 – 480 Vac (according to local standard)						
Rated frequency	50 Hz / 60 Hz						
Grid frequency range	45 – 55 Hz / 55 – 65 Hz (according to local standard)						
Active power adjustable range	0 – 100%						
THDi	< 3%						
Power factor	1 default (adjustable +/-0.8)						
Performance							
Max. efficiency	98.40%				98.50%		
European efficiency	97.50%				98.00%		
Protection							
DC reverse polarity protection	Yes						
Anti-islanding protection	Yes						
Leakage current protection	Yes						
Ground fault monitoring	Yes						
PV-array string fault monitoring	Yes						
Feed-in limitation function	Yes						
DC switch	Optional						
Input / output SPD	PV: type II standard, AC: type II standard						
Communication							
Standard communication mode	RS485 / WiFi / Bluetooth, optional: Ethernet						
General Data							
Ambient temperature range	-30°C – 60°C						
Self-consumption at night (W)	< 1						
Topology	Transformerless						
Degree of protection	IP65						
Allowable relative humidity range	0 – 100%						
Max. operating altitude	4000 m						
Noise	< 40 dB						
Weight (kg)	17				18		
Cooling	Natural						
Dimension (mm)	430*385*182						
Display	LCD, App via Bluetooth						
Warranty	10 years, optional: up to 20 years						
Standard							
EMC	EN 61000-6-1, EN 61000-6-3, EN 61000-3-2, EN 61000-3-3, EN 61000-3-11, EN 61000-3-12						
Safety standards	IEC 62109-1 / 2, IEC 62116, IEC 61727, IEC 61683, IEC 60068 (1, 2, 14, 30)						
Grid standards	VDE V 0124-100, V 0126-1-1, VDE-AR-N 4105, CEI 0-21 / CEI 0-16, UNE 206 007-1, EN 50549, G98 / G99, EN 50530						