



SOFAR

3.3K~12KTLX-G3

3.3 / 4.4 / 5 / 6.6 / 8.8 / 10 / 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 5KTLX-G3-A	SOFAR 6.6KTLX-G3	SOFAR 8.8KTLX-G3-A	SOFAR 10KTLX-G3-A	SOFAR 11KTLX-G3-A	SOFAR 12KTLX-G3	
Input (DC)									
Recommended max. PV input power (Wp)	4500	6000	7500	9000	12000	15000	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 / 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				15 / 30				
Max. input short circuit current per MPPT (A)	22.5 / 22.5				22.5 / 45				
Output (AC)									
Rated power (W)	3000	4000	5000	6000	8000	10000	10000	12000	
Rated apparent power (VA)	3000	4000	5000	6000	8000	10000	10000	12000	
Max. AC power (VA)	3300	4400	5500	6600	8800	10000	11000	13200	
Rated output current (A)	4.3	5.8	7.2	8.7	11.6	14.5	14.5	17.4	
Max. output current (A)	5	6.7	7.6	10	13.3	15.2	16.7	20	
Rated grid voltage	3 / N / PE, 230 / 400 Vac								
Grid voltage range	310 - 480 Vac (according to local standard)								
Rated grid frequency	50 Hz / 60 Hz								
Grid frequency range	45 Hz-55 Hz / 55 Hz-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					Yes				
Input / output SPD	PV: type II standard, AC: type II standard								
Communication									
Standard Communication mode	RS485/Bluetooth Optional: WiFi/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								
Standard warranty	10 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, IEC62116, IEC 61727, IEC61683, 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								