



SOFAR

3.3K~12KTLX-G3

3.3K / 4.4K / 5.5K / 6.6K / 8.8K / 11K / 12K W

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	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					15 / 15		15 / 30
Max. input short circuit current per MPPT (A)	22.5 / 22.5					22.5 / 22.5		22.5 / 45
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 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								
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							