

**SOFAR**

15K ... 24KTLX-G3

15 / 17 / 20 / 22 / 24 kW

THREE-PHASE

- Maximum efficiency 98.6%
- Maximum DC input voltage 1100 V
- Type II SPD for both DC and AC side
- 110% long-time overload ability

DUAL-MPPT

- Low start-up voltage, wide MPPT voltage
- Smart string level monitoring
- Remote firmware upgrade

Datasheet	SOFAR 15KTLX-G3		SOFAR 17KTLX-G3		SOFAR 20KTLX-G3		SOFAR 22KTLX-G3		SOFAR 24KTLX-G3	
Input (DC)										
Recommended max. PV input power (Wp)	22500			30000			33000		36000	
Max. DC power for single MPPT (W)	15000						16500		18000	
Number of MPP trackers	2									
Number of DC inputs	2 / 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)	420 – 850		450 – 850		480 – 850		510 – 850		540 – 850	
Max. input MPPT current (A)	26 / 26									
Max. input short circuit current per MPPT (A)	36 / 36									
Output (AC)										
Rated power (W)	15000		17000		20000		22000		24000	
Max. AC power (VA)	16500		18700		22000		24200		26400	
Max. output current (A)	23.9		27.1		31.9		35.1		38.3	
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	98.60%									
European weighted efficiency	98.20%									
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)	20		22				23			
Cooling	Fan									
Dimension (mm)	520*430*189									
Display	LCD, App via Bluetooth									
Warranty	10 years, optional: up to 20 years									
Standard										
EMC	EN 61000-6-1, EN 61000-6-3, EN 61000-3-11, 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									