



**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
<b>Input (DC)</b>					
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				
<b>Output (AC)</b>					
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)				
<b>Performance</b>					
Max. efficiency	98.60%				
European weighted efficiency	98.20%				
<b>Protection</b>					
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				
<b>Communication</b>					
Standard communication mode	RS485 / WiFi / Bluetooth, optional: Ethernet				
<b>General Data</b>					
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				
<b>Standard</b>					
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				