

SOFAR
15K~24KTLX-G3

15000/17000/20000/22000/24000

Three-Phase Dual-MPPT

- Remote firmware upgrade
- Smart string level monitoring
- Maximum DC input voltage 1100V
- Low start-up voltage, wide MPPT voltage
- Maximum efficiency 98.75%
- Type II SPD for both DC and AC
- 110% long-time overload ability

Datasheet	SOFAR 15KTLX-G3	SOFAR 17KTLX-G3	SOFAR 20KTLX-G3	SOFAR 22KTLX-G3	SOFAR 24KTLX-G3
Input (DC)					
Recommended Max. PV input power	22500Wp	25500Wp	30000Wp	33000Wp	36000Wp
Number of MPP trackers	2				
Number of DC inputs	2/2				
Max. input voltage	1100V				
Start-up voltage	160V				
Rated input voltage	650V				
MPPT operating voltage range	140V-1000V				
Full power MPPT voltage range	420V-850V	450V-850V	480V-850V	510V-850V	540V-850V
Max. input MPPT current	26A/26A	26A/26A	26A/26A	26A/26A	26A/26A
Max. input short circuit current per MPPT	36A/36A	36A/36A	36A/36A	36A/36A	36A/36A
Output (AC)					
Rated power	15000W	17000W	20000W	22000W	24000W
Max. AC power	16500VA	18700VA	22000VA	24200VA	26400VA
Max. Output current	23.9A	27.1A	31.9A	35.1A	38.3A
Nominal grid voltage	3/N/PE, 220V/380Vac, 230V/400Vac				
Grid voltage range	310Vac-480Vac (According to local standard)				
Nominal frequency	50 / 60Hz				
Grid frequency range	45Hz-55Hz/54Hz-66Hz (According to local standard)				
Active power adjustable range	0~100%				
THDi	<3%				
Power factor	1default (adjustable+/-0. 8)				
Performance					
Max efficiency	98.60%				
European weighted efficiency	98.20%				
Self-consumption at night	<1W				
MPPT efficiency	>99.9%				
Protection					
DC reverse polarity protection	Yes				
Anti-islanding protection	Yes				
Leakage current protection	Yes				
Ground fault monitoring	Yes				
PV-array string fault monitoring	Yes				
Anti reverse power function	Optional				
DC switch	Yes				
AFCI protection	Optional				
Input / output SPD	PV: type II standard, AC: type II standard				
Communication					
Power management unit	According to certification and request				
Standard communication mode	RS485/ USB/ Bluetooth, Optional: WiFi / GPRS				
Operation data storage	25 years				
General Data					
Ambient temperature range	-30℃~+60℃				
Topology	Transformerless				
Degree of protection	IP65				
Allowable relative humidity range	0~100%				
Max. Operating altitude	4000m				
Noise	<40dB				
Weight	20kg	22kg	22kg	23kg	23kg
Cooling	Fan				
Dimension	520*430*189mm				
Display	LCD&Bluetooth +APP				
Warranty	5 years/ 7 years/ 10 years				
Standard					
EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4				
Safety standards	IEC62109-1/2, IEC62116, IEC61727, IEC61683, IEC60068(1,2,14,30)				
Grid standards	AS/NZS 4777, VDE V 0124-100, V 0126-1-1, VDE-AR-N 4105, CEI 0-21/CEI 0-16, UNE 206 007-1, EN50549, G98/G99, EN50530, NB/T32004				