



SOFAR 12K~24KTLX-G3

12000/15000/17000/20000/22000/24000

Three-Phase Dual-MPPT



Remote firmware upgrade

98.75%

Maximum efficiency 98.75%



Smart string level monitoring

SPD

Type II SPD for both DC and AC

1100v

Maximum DC input voltage 1100V

110%

110% long-time overload ability



Low start-up voltage, wide MPPT voltage

Datasheet	SOFAR 12KTLX-G3	SOFAR 15KTLX-G3	SOFAR 17KTLX-G3	SOFAR 20KTLX-G3	SOFAR 22KTLX-G3	SOFAR 24KTLX-G3
Input (DC)						
Recommended Max. PV input power	18000Wp	22500Wp	25500Wp	30000Wp	33000Wp	36000Wp
Max DC power for single MPPT	12000W/6000W	15000W/7500W	12750W	15000W	16500W	18000W
Number of MPP trackers	2					
Number of DC inputs	2/1	2/1	2/2	2/2	2/2	2/2
Max. input voltage	1100V					
Start-up voltage	160V					
Rated input voltage	600V					
MPPT operating voltage range	140V-1000V					
Full power MPPT voltage range	450V-850V	480V-850V	450V-850V	480V-850V	510V-800V	540V-800V
Max. input MPPT current	26A/13A	26A/13A	26A/26A	26A/26A	26A/26A	26A/26A
Max. input short circuit current per MPPT	36A/18A	36A/18A	36A/36A	36A/36A	36A/36A	36A/36A
Output (AC)						
Rated power	12000W	15000W	17000W	20000W	22000W	24000W
Max. AC power	13200VA	16500VA	18700VA	22000VA	24200VA	26400VA
Max. Output current	17.4A	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	1 default (adjustable +/-0.8)					
Performance						
Max efficiency	98.60%	98.75%	98.75%	98.75%	98.75%	98.75%
European weighted efficiency	98.10%	98.20%	98.20%	98.20%	98.20%	98.20%
Self-consumption at night	<0.5W					
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 controller	Yes					
DC switch	Yes					
AFCI	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°C~ +60°C					
Topology	Transformerless					
Degree of protection	IP65					
Allowable relative humidity range	0~100%					
Max. Operating altitude	4000m					
Noise	<40dB					
Weight	20kg	20kg	22kg	22kg	22kg	22kg
Cooling	Natural	Natural	Fan	Fan	Fan	Fan
Dimension	513*425*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					