



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	1 default (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		
AFCL 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°C~+60°C		
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	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				