



SOFAR 15K~24KTLX-G3

15000/17000/20000/22000/24000

Three-Phase

Dual-MPPT



Remote firmware upgrade

98.75%

Maximum efficiency 98.6%



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
15KTLX-G3

SOFAR
15KTLX-G3-A

SOFAR
17KTLX-G3

SOFAR
20KTLX-G3

SOFAR
20KTLX-G3-A

SOFAR
22KTLX-G3

SOFAR
24KTLX-G3

SOFAR
24KTLX-G3-A

Input (DC)

Recommended Max. PV input power	22500Wp	22500Wp	25500Wp	30000Wp	30000Wp	33000Wp	36000Wp	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	420V-850V	450V-850V	480V-850V	480V-850V	510V-850V	540V-850V	540V-850V
Max. input MPPT current	26A/26A	26A/26A	26A/26A	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	36A/36A	36A/36A	36A/36A

Output (AC)

Rated power	15000W	15000W	17000W	20000W	20000W	22000W	24000W	24000W
Max. AC power	16500VA	15000VA	18700VA	22000VA	20000VA	24200VA	26400VA	24000VA
Max. Output current	23.9A	23.9A	27.1A	31.9A	31.9A	35.1A	38.3A	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%

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

Standard communication mode	RS485/ USB/ Bluetooth, Optional: WiFi / GPRS / 4G
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General Data

Ambient temperature range	-30°C ~ +60°C							
Self-consumption at night	< 1W							
Topology	Transformerless							
Degree of protection	IP65							
Allowable relative humidity range	0~100%							
Max. Operating altitude	4000m							
Noise	≤40dB							
Weight	20kg	20kg	22kg	22kg	22kg	23kg	23kg	23kg
Cooling	Fan							
Dimension	520*430*189mm							
Display	LCD&Bluetooth + APP							
Standard warranty	5 years, Optional: 7 years/ 10 years							

Standard

EMC	EN61000-6-1, EN61000-6-3, EN61000-6-3-11, EN61000-6-3-12							
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							