










SOFAR 3.3K~12KTLX-G3

3300/4400/5000/5500/6600/8800/10000/11000/12000

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 98.6%
-  Type II SPD for both DC and AC
-  Natural cooling, no fans, low noise

Datasheet

SOFAR 3.3KTLX-G3 SOFAR 4.4KTLX-G3 SOFAR 5KTLX-G3-A SOFAR 5.5KTLX-G3 SOFAR 6.6KTLX-G3 SOFAR 8.8KTLX-G3-A SOFAR 8.8KTLX-G3 SOFAR 10KTLX-G3-A SOFAR 11KTLX-G3-A SOFAR 11KTLX-G3 SOFAR 12KTLX-G3

Input (DC)

Recommended Max. PV input power	4500Wp	6000Wp	7500Wp	7500Wp	9000Wp	12000Wp	12000Wp	15000Wp	15000Wp	15000Wp	18000Wp
Number of MPP trackers	2										
Number of DC inputs	1/1	1/1	1/1	1/1	1/1	1/2	1/1	1/2	1/2	1/1	1/2
Max. input voltage	1100V										
Start-up voltage	160V										
Rated input voltage	650V										
MPPT operating voltage range	140V-1000V										
Full power MPPT voltage range	160V-850V	190V-850V	240V-850V	240V-850V	290V-850V	380V-850V	380V-850V	420V-850V	420V-850V	420V-850V	460V-850V
Max. input MPPT current	15A/15A	15A/15A	15A/15A	15A/15A	15A/15A	15A/30A	15A/15A	15A/30A	15A/30A	15A/15A	15A/30A
Max. input short circuit current per MPPT	22.5A/22.5A	22.5A/22.5A	22.5A/22.5A	22.5A/22.5A	22.5A/22.5A	22.5A/45A	22.5A/22.5A	22.5A/45A	22.5A/45A	22.5A/22.5A	22.5A/45A

Output (AC)

Rated power	3000W	4000W	5000W	5000W	6000W	8000W	8000W	10000W	10000W	10000W	12000W
Rated apparent power	3000VA	4000VA	5000VA	5000VA	6000VA	8000VA	8000VA	10000VA	10000VA	10000VA	12000VA
Max. AC power	3300VA	4400VA	5000VA	5500VA	6600VA	8800VA	8800VA	10000VA	11000VA	11000VA	13200VA
Max. Output current	5A	6.7A	7.6A	8.3A	10A	13.3A	13.3A	15.2A	16.7A	16.7A	20A
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	98.40%	98.40%	98.40%	98.40%	98.40%	98.50%	98.50%	98.50%	98.50%	98.50%	98.50%
European efficiency	97.50%	97.50%	97.50%	97.50%	97.50%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%

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	Yes
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	17kg	17kg	17kg	17kg	17kg	17kg	17kg	18kg	18kg	18kg	18kg
Cooling	Natural										
Dimension	430*385*182mm										
Display	LCD&Bluetooth +APP										
Standard warranty	10 years										

Standard

EMC	EN61000-3-2, EN61000-3-3, EN61000-3-11, EN61000-3-12, EN61000-6-1, EN61000-6-3										
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										