

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 (Australia)	SOFAR 5.5KTLX-G3	SOFAR 6.6KTLX-G3	SOFAR 8.8KTLX-G3	SOFAR ⁺ 10KTLX-G3 (Australia)	SOFAR 11KTLX-G3	SOFAR 12KTLX-G3
Input (DC)									
Recommended Max. PV input power	4500Wp	6000Wp	7500Wp	7500Wp	9000Wp	12000Wp	15000Wp	15000Wp	18000Wp
Number of MPPT trackers	2								
Number of DC inputs	1/1	1/1	1/1	1/1	1/1	1/1	2/1	1/1	2/1
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	420V~850V	420V~850V	420V~850V
Max. input MPPT current	13A/13A	13A/13A	13A/13A	13A/13A	13A/13A	13A/13A	26A/13A	13A/13A	26A/13A
Max. input short circuit current per MPPT	18A/18A	18A/18A	18A/18A	18A/18A	18A/18A	18A/18A	36A/18A	18A/18A	36A/18A
Output (AC)									
Rated power	3000W	4000W	5000W	5000W	6000W	8000W	10000W	10000W	12000W
Max. AC power	3300VA	4400VA	5000VA	5500VA	6600VA	8800VA	11000VA	11000VA	13200VA
Max. Output current	8.8A	8.8A	7.3A	8.8A	9.6A	12.8A	15.9A	13.9A	17.4A
Nominal grid voltage	3/N/PE, 220V/380Vac, 230V/400Vuc								
Grid voltage range	310Vac~480Vac (According to local standard)								
Nominal frequency	50 / 60Hz								
Grid frequency range	45Hz~55Hz/56Hz~64Hz (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%
European weighted efficiency	97.50%	97.50%	97.50%	97.50%	97.50%	98.00%	98.00%	98.00%	98.00%
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: Wi-Fi / 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	17kg	17kg	17kg	17kg	17kg	18kg	18kg	18kg	18kg
Cooling	Natural								
Dimension	513*425*69mm								
Display	LCD&Bluetooth + APP								
Warranty	5 years/ 7 years/ 10 years								
Standard									
EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4								
Safety standards	IEC62109-1/-2, IEC62116, IEC61727, IEC61683, IEC60048(-1, 2, 14, 30)								
Grid standards	AS/NZS 4777, VDE V 0124-109, V 0124-1-1, VDE-AR-N 4105, CEI 0-21/CEI 0-14, UNE 206 007-1, EN50549, G98/G99, EN50530, NIE/TJ2004								



SOFAR 3K~6KTLM-G3

3000/3600/4000/4600/5000/6000



Single-Phase Dual-MPPT

- 0** Built-in zero export function
- AFCI** Optional AFCI function
- Compact design, light in weight**
- Natural cooling, no fans, low noise**
- 98.4%** Max. efficiency up to 98.4%
- 2** Two MPPT trackers with 1.5*DC overload
- Smart monitoring, remote firmware upgrade**

Datasheet

	SOFAR 3KTLM-G3	SOFAR 3.6KTLM-G3	SOFAR 4KTLM-G3	SOFAR 4.6KTLM-G3	SOFAR 5KTLM-G3	SOFAR 6KTLM-G3
Input (DC)						
Recommended Max. PV input power	4500Wp	5400Wp	6000Wp	6900Wp	7500Wp	9000Wp
Max DC power for single MPPT				3500W		
Number of MPPT trackers				2		
Number of DC inputs				1 for each MPPT		
Max. Input voltage				600V		
Start-up voltage				60V		
Rated input voltage				360V		
MPPT operating voltage range				50V-570V		
Full power MPPT voltage range	125V-520V	150V-520V	165V-520V	190V-520V	210V-520V	250V-520V
Max. Input MPPT current				12.5A/12.5A		
Max. input short circuit current per MPPT				15A/15A		
Output (AC)						
Rated power	3000W	3680W	4000W	4600W	5000W	6000W
Max. AC power	3000VA	3680VA	4000VA	4600VA	5000VA	6000VA
Nominal output current	13A	16A	17.4A	20A	21.7A	26.1A
Max. Output current	14.4A	16A	19.3A	22.2A	24.1A	28.5A
Nominal grid voltage			L/N/PE, 220Vac, 230Vac, 240Vac			
Grid voltage range			180Vac-276Vac (According to local standard)			
Nominal frequency			50Hz/60Hz			
Grid frequency range			45Hz-55Hz/54Hz-66Hz (According to local standard)			
Active power adjustable range			0~100%			
THDI			<3%			
Power factor			Tdefault (adjustable +/-0.8)			
Power limit export			Zero export or adjustable power limit export			
Performance						
Max efficiency	98.2%	98.2%	98.4%	98.4%	98.4%	98.4%
European weighted efficiency	97.3%	97.3%	97.3%	97.5%	97.5%	97.5%
Self-consumption at night			<1W			
MPPT efficiency			>99.9%			
Protection						
DC reverse polarity protection			Yes			
DC switch			Optional			
AFCI protection			Optional			
Protection class/overvoltage category			I/II			
Safety protection			Anti islanding, RCHU, Ground fault monitoring			
SPD			MOV, Type III standard			
Communication						
Power management unit			According to certification and request			
Standard communication mode			RS485/USB, 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			<25dB			
Weight			10kg			
Cooling			Natural			
Dimension			345*341*67mm			
Display			LCD display			
Warranty			5 years/ 7 years/ 10 years			
Standard						
EMC			EN 61000-6-2, EN 61000-6-3, EN 61000-3-2, EN 61000-3-3, EN 61000-3-11, EN 61000-3-12			
Safety standards			IEC62109-1/-2, IEC62116, IEC61727, IEC-61683, IEC60088(1,2,14,30)			
Grid standards			VDE-AR-N 4105, VDE V 0126-1-1, V 0124-100, AS/NZS 4777, CEI 0-21, C98/G99, C1011, EN 50549, RD 1699			