

SOFAR **3k~7.5kTL-G2**

3000/3600/4000/4600/5000/6000/7500



Single-Phase **Dual-MPPT**

0

Built-in zero export function



IP65 ingress protection

98.2%

Max. efficiency up to 98.2%



Smart monitoring, RS485, Wifi/Ethernet/GPRS (optional)



2 MPPT high precision string detection



I-V curve scanning function



Built-in sound and light alarm function

Datasheet	SOFAR 3KTLM-G2	SOFAR 3.6KTLM-G2	SOFAR 4KTLM-G2	SOFAR 4.6KTLM-G2	SOFAR 5KTLM-G2	SOFAR 6KTLM-G2	SOFAR 7.5KTLM
Input (DC)							
Recommended Max. PV input power	3990Wp	4790Wp	5320Wp	6120Wp	6650Wp	7980Wp	9980Wp
Max DC power for single MPPT	2000W	2400W	2600W	3000W	3300W	4000W	2*2750W/ 2750W
Number of MPP trackers	2						
Number of DC inputs	1/12/1						
Max. Input voltage	600V						
Start-up voltage	120V						
Rated input voltage	360V						
MPPT operating voltage range	90-580V						
Full power MPPT voltage range	160V-520V	180V-520V	200V-520V	230V-520V	250V-520V	300V-520V	250V-520V
Max. Input current per MPPT	11A/11A22A/11A						
Maximun DC input short circuit current per MPPT	13.2A26.4/13.2A						
Output (AC)							
Rated power	3000W	3680W	4000W	4600W	5000W	6000W	7500W
Max. AC power	3000VA	3680VA	4000VA	4600VA	5000VA	6000VA	7500VA
Max. Output current	13.7A	16.8A	18.2A	21A	22.8A	27.3A	32.6A
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	1 default (adjustable +/-0.8)						
Power limit export	Zero export or adjustable power limit export						
Performance							
Max efficiency	98.0%98.2%						
European weighted efficiency	97.5%97.6%						
Self-consumption at night	<1W						
MPPT efficiency	>99.9%						
Protection							
DC reverse polarity protection	Yes						
DC switch	Optional						
Protection class/overvoltage category	I/III						
Safety protection	Anti islanding, RCMU, Ground fault monitoring						
SPD	MOV: Type III standard						
Communication							
Power management unit	According to certification and request						
Standard communication mode	Rs485, Wifi/Ethernet/GPRS(optional), SD card(optional)						
Operation data storage	25 years						
General Data							
Ambient temperature range	-25℃~+60℃-30℃~+60℃						
Topology	Transformerless						
Degree of protection	IP65						
Allowable relative humidity range	0~100%						
Max. Operating altitude	2000m						
Noise	<25dB						
Weight	11.5kg18kg						
Cooling	Natural						
Dimension	405*315*135mm467*352*157mm						
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, 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, EN50549, G83/G59/G98/G99, NB/T32004; ABNT NBR 16149/16150 (for SOFAR3KTLM-G2, SOFAR5KTLM-G2& 7.5KTLM)						



SOFAR **3.3k~12kTL-X**

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

Three-Phase Dual-MPPT



Integrated with DC switch

98.3%

Max. efficiency up to 98.3%



Super large 4-inch LCD

DRM

Built-in DRM port and logic



Smart monitoring, RS485, Wifi/Ethernet/GPRS (optional)



Over / under voltage, over current, over temperature, Anti-islanding and other multiple protections

Datasheet	SOFAR [*] 3.3KTL-X	SOFAR 4.4KTL-X	SOFAR [*] 5KTL-X (Australia)	SOFAR 5.5KTL-X	SOFAR 6.6KTL-X	SOFAR 8.8KTL-X	SOFAR 11KTL-X	SOFAR 12KTL-X
Input (DC)								
Recommended Max. PV input power	4390Wp	5860Wp	6650Wp	7320Wp	8780Wp	11710Wp	14630Wp	15960Wp
Max DC power for single MPPT	3550W	4500W	5700W	5700W	6250W	6200W	6200W	6850W
Number of MPP trackers	2							
Number of DC inputs	1 for each MPPT							
Max. Input voltage	1000V							
Start-up voltage	200V							
Rated input voltage	600V							
MPPT operating voltage range	160-960V							
Full power MPPT voltage range	160V-850V	190V-850V	240V-850V	240V-850V	290V-850V	380V-850V	480V-850V	575V-850V
Max. Input current per MPPT	11A/11A							
Maximun DC input short circuit current per MPPT	14A							
Output (AC)								
Rated power	3000W	4000W	5000W	5000W	6000W	8000W	10000W	12000W
Max. AC power	3300VA	4400VA	5000VA	5500VA	6600VA	8800VA	11000VA	13200VA
Max. Output current	4.8A	6.4A	8.0A	8.0A	9.6A	12.8A	15.9A	19.1A
Nominal grid voltage	3/N/PE, 220/380Vac, 230/400Vac, 240/415Vac							
Grid voltage range	310Vac-480Vac (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	1 default (adjustable+/-0.8)							
Power limit export	Zero export or adjustable power limit export							
Performance								
Max efficiency	98.0%	98.0%	98.0%	98.0%	98.0%	98.3%	98.3%	98.3%
European weighted efficiency	97.5%	97.5%	97.5%	97.5%	97.5%	98.0%	98.0%	98.0%
Self-consumption at night	<1W							
MPPT efficiency	>99.9%							
Protection								
DC reverse polarity protection	Yes							
DC switch	Yes							
Safety protection	Anti islanding, RCMU, Ground fault monitoring							
ARPC	Anti reverse power controller(optional)							
Communication								
Power management unit	According to certification and request							
Standard communication mode	RS485, Wifi/Ethernet/GPRS(optional), SD card							
Operation data storage	25 years							
General Data								
Ambient temperature range	-25°C~+60°C							
Topology	Transformerless							
Degree of protection	IP65							
Allowable relative humidity range	0~100%							
Max. Operating altitude	2000m							
Noise	<29dB							
Weight	21kg	21kg	21kg	21kg	21kg	22kg	22kg	22kg
Cooling	Natural							
Dimension	457*452*202mm							
Display	LCD display							
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, IEC-61683, IEC60068(1,2,14,30), IEC60255							
Grid standards	AS/NZS 4777, VDE V 0124-100, V 0126-1-1, VDE-AR-N 4105, CEI 0-21, EN50549, G83, Rd1699, UTE C15-712-1, EN50530, NB/T32004							

The models marked with "*" should be available only for some designated countries.