










SOFAR 3K~6KTLM-G3

3000/3600/4000/4600/5000/5500/6000

Single-Phase Dual-MPPT

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

Datasheet

**SOFAR
3KTLM-G3****SOFAR
3.6KTLM-G3****SOFAR
4KTLM-G3****SOFAR
4.6KTLM-G3****SOFAR *
5KTLM-G3
(Australia)****SOFAR
5.5KTLM-G3****SOFAR
6KTLM-G3**

Input (DC)

Recommended Max. PV input power	4500Wp	5400Wp	6000Wp	6900Wp	7500Wp	7500Wp	9000Wp
Max DC power for single MPPT	3500W						
Number of MPP 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-560V						
Full power MPPT voltage range	125V-520V	150V-520V	165V-520V	190V-520V	210V-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	5000W	6000W
Max. AC power	3300VA	3680VA	4400VA	4600VA	5000VA	5500VA	6600VA
Nominal output current	13.6A	16A	18.2A	21A	21.7A	22.7A	27.3A
Max. Output current	15A	16A	20A	23A	21.7A	25A	30A
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	98.2%	98.2%	98.4%	98.4%	98.4%	98.4%	98.4%
European weighted efficiency	97.3%	97.3%	97.3%	97.5%	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/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/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*167mm						
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	VDE-AR-N 4105, VDE V 0126-1-1, V 0124-100, AS/NZS 4777, CEI0-21, G98/G99, C10/11, EN 50549, RD 1699						

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

SOFAR 3K/3.6K/4K/4.6K/5K/6KTLM-G3_EN_202012_V1