



# SOFAR 3K~6KTLM-G3

3000/3600/4000/4600/5000/6000

## Single-Phase

## Dual-MPPT

- |              |   |                  |                                       |
|--------------|---|------------------|---------------------------------------|
| <b>0</b>     | Built-in zero export function             | <b>AFCI</b>      | Optional AFCI function                |
|              | Compact design, light in weight           |                  | Natural cooling, no fans, low noise   |
| <b>98.4%</b> | Max. efficiency up to 98.4%               | <b>2</b><br>MPPT | Two MPP 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 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-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	28.9A
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%
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/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, CEI 0-21, G98/G99, C10/11, EN 50549, RD 1699