

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	3500W	3500W	3500W	3500W	3500W	3500W	2*2750W/ 2750W
Number of MPP trackers	2						
Number of DC inputs	1/1						2/1
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/11A						22A/11A
Maximum DC input short circuit current per MPPT	13.2A						26.4/13.2A

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°C~+60°C						-30°C~+60°C
Topology	Transformerless						
Degree of protection	IP65						
Allowable relative humidity range	0~100%						
Max. Operating altitude	2000m						
Noise	< 25dB						
Weight	11.5kg						18kg
Cooling	Natural						
Dimension	405*315*135mm						467*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)						