

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)						