










# SOFAR 3K~7.5KTL-G2

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

## Single-Phase      Dual-MPPT

-  Built-in zero export function
-  IP65 ingress protection
-  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
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## 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			
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			
Maximum DC input short circuit current per MPPT				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 <sup>*1</sup>	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)						

\*1: For G98 UK standard, SOFAR 3.6KTLM-G2, Max. Output current is 16A.