










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	
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 ^{*1}	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.