










SOFAR 3k~7.5kTL-G2

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



Single-Phase Dual-MPPT

-  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	3500W	4000W	4400W	5000W	5500W	6600W	8300W
Max DC power for single MPPT	2000W	2400W	2600W	3000W	3000W	3500W	2*2750W/ 2750W
Number of independent MPPT	2						
Number of DC inputs	1/1						2/1
Max. Input voltage	600V						
Start-up input voltage	120V						
Rated input voltage	360V						
MPPT voltage range	90-580V						
Full load DC 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	14A						28/14A

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	
Feed-in start power	50W	
MPPT efficiency	> 99.9%	

Protection

DC reverse polarity protection	Yes
DC switch	Optional
Protection class/overvoltage category	I/III
Input/output MOV (II)	Yes
Safety protection	Anti islanding, RCMU, Ground fault monitoring
SPD	MOV: Type III standard/ Type II optional

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 Date

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 convection	
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, EN50438/EN50549, G83/G59/G98/G99, NB/T32004; ABNT NBR 16149/16150 (for SOFAR3KTLM-G2, SOFAR5KTLM-G2& 7.5KTLM)