



SOFAR 3K~6KTLM-G3

3000/3600/4000/4600/5000/5500/6000

Single-Phase Dual-MPPT

0

Built-in zero export function



Compact design, light in weight

98.4%

Max. efficiency up to 98.4%



Smart monitoring, remote firmware upgrade

AFCI

Optional AFCI function



Natural cooling, no fans, low noise

2

MPPT

Two MPP trackers with 1.5*DC overload

Datasheet	SOFAR 3KTLM-G3	SOFAR 3.6KTLM-G3	SOFAR 4KTLM-G3	SOFAR 4.6KTLM-G3	SOFAR * 5KTLM-G3 (Australia)	SOFAR 5.5KTLM-G3	SOFAR 6KTLM-G3
Input (DC)							
Recommended Max. PV input power	4500Wp	5400Wp	6000Wp	6900Wp	7500Wp	7500Wp	9000Wp
Max DC power for single MPPT				3500W			
Number of MPP trackers				2			
Number of DC inputs				1 for each MPPT			
Max. Input voltage				600V			
Start-up voltage				60V			
Rated input voltage				360V			
MPPT operating voltage range				50V-560V			
Full power MPPT voltage range	125V-520V	150V-520V	165V-520V	190V-520V	210V-520V	210V-520V	250V-520V
Max. Input MPPT current				12.5A/12.5A			
Max. input short circuit current per MPPT				15A/15A			
Output (AC)							
Rated power	3000W	3680W	4000W	4600W	5000W	5000W	6000W
Max. AC power	3300VA	3680VA	4400VA	4600VA	5000VA	5500VA	6600VA
Nominal output current	13.6A	16A	18.2A	21A	21.7A	22.7A	27.3A
Max. Output current	15A	16A	20A	23A	21.7A	25A	30A
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	1default (adjustable +/-0.8)						
Power limit export	Zero export or adjustable power limit export						
Performance							
Max efficiency	98.2%	98.2%	98.4%	98.4%	98.4%	98.4%	98.4%
European weighted efficiency	97.3%	97.3%	97.3%	97.5%	97.5%	97.5%	97.5%
Self-consumption at night				<1W			
MPPT efficiency				>99.9%			
Protection							
DC reverse polarity protection				Yes			
DC switch				Optional			
AFCI protection				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/USB, Optional: WiFi/GPRS			
Operation data storage				25 years			
General Data							
Ambient temperature range				-30℃~+60℃			
Topology				Transformerless			
Degree of protection				IP65			
Allowable relative humidity range				0~100%			
Max. Operating altitude				4000m			
Noise				<25dB			
Weight				10kg			
Cooling				Natural			
Dimension				345*341*167mm			
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	VDE-AR-N 4105, VDE V 0126-1-1, V 0124-100, AS/NZS 4777, CEI 0-21, G98/G99, C10/11, EN 50549, RD 1699						

The models marked with "*" should be available only for some designated countries.

SOFAR 3K/3.6K/4K/4.6K/5K/6KTLM-G3_EN_202012_V1