



SOFAR 3K~6KTLM-G3

3000/3600/4000/4600/5000/6000



Single-Phase Dual-MPPT

- 0** Built-in zero export function
- AFCI** Optional AFCI function
- Hand** Compact design, light in weight
- 2** Natural cooling, no fans, low noise
- 98.4%** Max. efficiency up to 98.4%
- 2 MPPT** Two MPP trackers with 1.5*DC overload
- WiFi** Smart monitoring, remote firmware upgrade

Datasheet

	SOFAR 3KTLM-G3	SOFAR 3.6KTLM-G3	SOFAR 4KTLM-G3	SOFAR 4.6KTLM-G3	SOFAR 5KTLM-G3	SOFAR 6KTLM-G3
Input (DC)						
Recommended Max. PV input power	4500Wp	5400Wp	6000Wp	6900Wp	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-570V		
Full power MPPT voltage range	125V-520V	150V-520V	165V-520V	190V-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	6000W
Max. AC power	3000VA	3680VA	4000VA	4600VA	5000VA	6000VA
Nominal output current	13A	16A	17.4A	20A	21.7A	26.1A
Max. Output current	14.4A	16A	19.3A	22.2A	24.1A	28.9A
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	98.2%	98.2%	98.4%	98.4%	98.4%	98.4%
European weighted efficiency	97.3%	97.3%	97.3%	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°C~+60°C		
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					