



SOFAR 3K~6KTLM-G3

3000/3600/4000/4600/5000/6000

Single-Phase Dual-MPPT

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