



SOFAR 7K~10.5KTLM-G3

7K / 7.7K / 8K / 9K / 10K / 10.5K

Single-Phase Three-MPPT

- 110%

Longtime 110% AC overload ability
- 98.1%

Max. efficiency up to 98.1%
- 4

Lower start voltage, wide MPPT voltage range
- 3 MPPT

Three MPP trackers with 1.5*DC overload
- I/V

Smart I/V curve scanning
- AFCI

Optional AFCI protection
- 🌬️

Natural cooling, no fans, low noise
- 🔗

Compatible with 500W+ PV modules

Datasheet

Datasheet	SOFAR 7KTLM-G3	SOFAR 7.7KTLM-G3	SOFAR 8KTLM-G3	SOFAR 9KTLM-G3	SOFAR 10KTLM-G3	SOFAR 10.5KTLM-G3
Input (DC)						
Recommended Max. PV input power	10500Wp	10500Wp	12000Wp	13500Wp	15000Wp	15000Wp
Max. DC power for single MPPT	6600W/5000W/5000W					
Number of MPP trackers	3					
Number of DC inputs	3					
Max. input voltage	600V					
Start-up voltage	90V					
Rated input voltage	360V					
MPPT operating voltage range	80V-550V					
Full power MPPT voltage range	200V-500V	200V-500V	230V-500V	260V-500V	280V-500V	300V-500V
Max. input MPPT current	20A/16A/16A					
Max. input short circuit current per MPPT	30A/25A/25A					
Output (AC)						
Rated power	7000W	7700W	8000W	9000W	10000W	10500W
Max. AC power	7700VA	7700VA	8800VA	9900VA	10000VA	10500VA
Nominal output current	31.8A	35A	36.4A	40.9A	45.5A	45.5A
Max output current	35A	35A	40A	45A	46A	46A
Nominal grid voltage	L/N/PE, 220Vac, 230Vac, 240Vac					
Grid voltage range	180Vac-276Vac (According to local standard)					
Nominal frequency	50/60Hz					
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)					
Efficiency						
Max efficiency	98.1%					
European efficiency	97.3%					
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	PV:Type II standard, AC:Type III standard					
Communication						
Communication	RS485/USB/Bluetooth, Optional:WiFi/GPRS/4G					
General Data						
Ambient temperature range	-30℃~+60℃					
Self-consumption at night	<1W					
Topology	Transformerless					
Degree of protection	IP65					
Allowable relative humidity range	0~100%					
Max. operating altitude	4000m					
Noise	<25dB					
Weight	15kg					
Cooling	Natural					
Dimension	468*380*184mm					
Display	LCD & APP + Bluetooth					
Standard warranty	5 years, Optional :7 & 10 years					
Standard						
EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4					
Safety standards	IEC 62109-1/2, IEC 62116, IEC 61727, IEC 61683, IEC 60068					
Grid standards	AS/NZS 4777, G99, INMETRO, NB/T32004					