

**SOFAR**

7K~10.5KTLM-G3

7 / 8 / 9 / 10 / 10.5 kW

SINGLE-PHASE

- Max. efficiency up to 98.1%
- Three MPP trackers with 150% DC overload
- I-V curve scanning function
- Prolonged AC overload compatibility (110%)

THREE MPPTS

- Low start-up voltage, wide MPPT voltage range
- Compatible with 500 W+ modules
- Natural cooling, no fans, low noise

Datasheet	SOFAR 7KTLM-G3	SOFAR 8KTLM-G3	SOFAR 9KTLM-G3	SOFAR 10KTLM-G3	SOFAR 10.5KTLM-G3
Input (DC)					
Recommended max. PV input power (Wp)	10500	12000	13500	15000	15000
Max. DC power for single MPPT (W)	6250 / 5000 / 5000				
Number of MPP trackers	3				
Number of DC inputs	3				
Max. input voltage (V)	600				
Start-up voltage (V)	90				
Rated input voltage (V)	360				
MPPT operating voltage range (V)	80–550				
Full power MPPT voltage range (V)	200–500	230–500	260–500	280–500	300–500
Max. input MPPT current (A)	20 / 16 / 16				
Max. input short circuit current per MPPT (A)	30 / 25 / 25				
Output (AC)					
Rated power (W)	7000	8000	9000	10000	10500
Rated apparent power (VA)	7000	8000	9000	10000	10500
Max. AC power (VA)	7700	8800	9900	10000	10500
Rated output current (A)	30.4	34.8	39.1	43.5	45.6
Max output current (A)	35	40	45	46	
Rated grid voltage	L / N / PE, 230 Vac				
Grid voltage range	180 Vac–276 Vac (according to local standard)				
Rated grid frequency	50 Hz / 60 Hz				
Grid frequency range	45 Hz–55 Hz / 55 Hz–65 Hz (according to local standard)				
Active power adjustable range	0–100%				
THDi	< 3%				
Power factor	1 default (adjustable +/-0.8)				
Performance					
Max. efficiency	98.1%				
European efficiency	97.3%				
Protection					
DC reverse polarity protection	Yes				
DC switch	Yes				
Safety protection	Anti-islanding, RCMU, Ground fault monitoring				
SPD	PV: Type II standard, AC: Type III standard				
Communication					
Standard Communication mode	RS485/Bluetooth Optional: WiFi/Ethernet				
Protection					
Ambient temperature range	-30°C~+60°C				
Self-consumption at night (W)	< 1				
Topology	Transformerless				
Degree of protection	IP65				
Allowable relative humidity range	0–100%				
Max. operating altitude	4000 m				
Noise	< 25 dB				
Weight (kg)	17.5				18.5
Cooling	Natural				
Dimension (mm)	468*380*187				
Display	LCD, App via Bluetooth				
Standard warranty	10 years				
Standard					
EMC	EN 61000-6-1, EN 61000-6-3, EN 61000-3-11, EN 61000-3-12				
Safety standards	IEC 62109-1/2, IEC 62116, IEC 61727, IEC 61683, IEC 60068				
Grid standards	G99				