

SOFAR 7K~10.5KTLM-G3

7 / 8 / 9 / 10 / 10.5 kW

SINGLE-PHASE THREE-MPPTS



Product advantages

- Max. efficiency up to 98.1%
- Low start-up voltage, wide MPPT voltage range
- Three MPPTs with 150% DC overload
- Compatible with 500 W+ modules
- I-V curve scanning function
- Natural cooling, no fans, low noise
- Prolonged AC overload compatibility (110%)



Datasheet	SOFAR 7KTLM-G3	SOFAR 8KTLM-G3	SOFAR 9KTLM-G3	SOFAR 10KTLM-G3	SOFAR 10.5KTLM-G3
Input (DC)					
Recommended Max. PV input power	10500Wp	12000Wp	13500Wp	15000Wp	15000Wp
Max. input voltage	600V				
Rated input voltage	360V				
Start-up voltage	90V				
MPPT operating voltage range	80V-550V				
Number of MPPTs	3				
Number for DC inputs	3				
Max. input MPPT current	20A/16A/16A				
Max. input short circuit current	30A/25A/25A				
Output (AC)					
Rated output power	7000W	8000W	9000W	10000W	10500W
Rated apparent power	7000VA	8000VA	9000VA	10000VA	10500VA
Max. apparent power	7700VA	8800VA	9900VA	10000VA	10500VA
Rated output current	30.4A	34.8A	39.1A	43.5A	45.6A
Max. Output current	35A	40A	45A	46A	46A
Rated output voltage	L/N/PE,230Vac				
Output voltage range	180Vac-276Vac				
Rated output frequency	50/60Hz				
Output frequency range	45Hz-55Hz/55Hz-65Hz				
Active power adjustable range	0-100%				
THDi	<3%				
Power factor	1 (adjustable+/-0.8)				
Efficiency					
Max. efficiency	98.1%				
European efficiency	97.3%				
Protection					
DC reverse polarity protection	Yes				
Anti-islanding protection	YesMethod (Reactive power disturbance)				
Leakage current protection	Yes				
Ground fault monitoring	Yes				
PV-array string fault monitoring	Yes				
DC switch	Yes				
SPD	PV: type II, AC: type III				
General Data					
Ambient temperature range	-30°C~+60°C				
Self-consumption at night	<1W				
Topology	Transformerless				
Degree of protection	IP65				
Allowable relative humidity range	0-100%				
Max. operating altitude	4000m				
Cooling	Natural				
Dimension(W×H×D)	468×380×187 mm				
Weight	17.5kg		18.5kg		
Display	LCD & Bluetooth +APP				
Communication	RS485/Wi-Fi				
Standard	IEC 61000-6-1/3, IEC 61000-3-11/12, IEC 62116, IEC 61727, IEC 61683, IEC 60068-1/2/14/30, IEC 62109-1/2 AS/NZS 4777.2:2020				

*All specifications are subject to change without notice.