



SOFAR

3K ... 6KTLM-G3

3 / 3.6 / 4 / 4.6 / 5 / 6 kW

SINGLE-PHASE

- Max. efficiency up to 98.4%
- Two MPP trackers with 150% DC overload
- RS485 / WiFi / Bluetooth / optional: Ethernet

DUAL-MPPT

- Compact design, lightweight
- Natural cooling, no fans, low noise
- Built-in zero export function

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 (Wp)	4500	5400	6000	7000	7500	9000
Max. DC power for single MPPT (W)	3500			3750		4500
Number of MPP trackers	2					
Number of DC inputs	1 for each MPPT					
Max. input voltage (V)	600					
Start-up voltage (V)	90					
Rated input voltage (V)	380					
MPPT operating voltage range (V)	80 – 550					
Full power MPPT voltage range (V)	200 – 500			210 – 500		260 – 500
Max. input MPPT current (A)	15 / 15					
Max. input short circuit current per MPPT (A)	22.5 / 22.5					
Output (AC)						
Rated power (W)	3000	3680	4000	4600	5000	6000
Max. AC power (VA)	3300	3680	4400	4600	5500	6000
Max. output current (A)	15	16	20	23	25	29
Rated grid voltage	L / N / PE, 230 Vac					
Grid voltage range	180 – 276 Vac (according to local standard)					
Rated frequency	50 Hz / 60 Hz					
Grid frequency range	45 – 55 Hz / 55 – 65 Hz (according to local standard)					
Active power adjustable range	0 – 100%					
THDi	< 3%					
Power factor	1 default (adjustable +/-0.8)					
Performance						
Max. efficiency	98.2%			98.4%		
European efficiency	97.3%			97.5%		
Protection						
DC reverse polarity protection	Yes					
DC switch	Optional					
Safety protection	Anti-islanding, RCMU, Ground fault monitoring					
SPD	MOV: Type III standard					
Communication						
Standard communication mode	RS485 / WiFi / Bluetooth, optional: Ethernet					
General data						
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)	9.2			10		
Cooling	Natural					
Dimension (mm)	349*344*164					
Display	LCD, App via Bluetooth					
Standard warranty	10 years, optional: up to 20 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	IEC 62109-1 / 2, IEC 62116, IEC 61727, IEC 61683, IEC 60068 (1, 2, 14, 30)					
Grid standards	VDE-AR-N 4105, VDE V 0126-1-1, V 0124-100, CEI 0-21, G98 / G99, C10 / 11, EN 50549, RD 1699					