

**SOFAR**

1100~3300TL-G3

1100 / 1600 / 2200 / 2700 / 3000 / 3300 W

SINGLE-PHASE

- Max. efficiency up to 97.7%
- 140% DC overload
- RS485
- Optional: WiFi/Ethernet

SINGLE-MPPT

- Lightweight, quick and easy to install
- IP65 design for outdoor
- Built-in zero export function

Datasheet

SOFAR
1100TL-G3SOFAR
1600TL-G3SOFAR
2200TL-G3SOFAR
2700TL-G3SOFAR
3000TL-G3SOFAR
3300TL-G3

Input (DC)						
Recommended max. PV input power (Wp)	1500	2200	3000	3700 W	4100	4500
Max. input voltage (V)	500			550		
Start-up voltage (V)	70					
Rated input voltage (V)	360					
MPPT operating voltage range (V)	50-500			50-550		
Full power MPPT voltage range (V)	110-450	150-450	200-450	250-500	275-500	300-500
Max. input current MPPT (A)	12					
Max. DC input short circuit current per MPPT (A)	15					
Number of MPPT / string per MPPT	1 / 1					
Input terminal type	MC4					
Output (AC)						
Rated power (W)	1100	1600	2200	2700	3000	3300
Max. AC power (VA)	1100	1600	2200	2700	3000	3300
Max. output current (A)	5.3	7.7	10.6	13	14.5	16
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 ~ 55 Hz / 55 ~ 65 Hz (according to local standard)					
THDi	< 3%					
Power factor	1 default (adjustable +/-0.8)					
Efficiency						
Max. efficiency	97.5%			97.7%		
European efficiency	96.9%			97.2%		
Protection						
Anti-islanding protection	Yes					
DC reverse polarity protection	Yes					
DC switch	Optional					
Overtemperature protection	Yes					
Leakage current protection	Yes					
Earth fault protection	Yes					
SPD	MOV: Type III standard					
Communication						
Standard Communication mode	RS485, Optional: WiFi/Ethernet					
General						
Topology	Transformerless					
Ambient temperature range	-30°C~+60°C					
Self-consumption at night (W)	< 1					
Allowable relative humidity range	0~100%					
Noise	< 25 dB					
Cooling	Natural					
Max. operating altitude	2000 m					
Dimension (mm)	303*260.5*118			321*260.5*131.5		
Support bracket	Wall-mounted					
Weight (kg)	5.5			6.3		
Display	LCD+LED					
Degree of protection	IP65					
Standard						
EMC	EN 61000-6-1, EN 61000-6-3, EN 61000-3-2, EN 61000-3-3					
Safety standards	IEC 62116, IEC 61727, IEC 61683, IEC 60068 (1,2,14,30), IEC 62109-1 / 2					
Grid standards	VDE V 0124-100, VDE V 0126-1-1, VDE-AR-N 4105, G83 / 2, C10 / 11, RD 1699					



SOFAR

3K~6KTLM-G3

3K / 3.6K / 4K / 4.6K / 5K / 6K W

SINGLE-PHASE

- Max. efficiency up to 98.4%
- Two MPP trackers with 150% DC overload
- Built-in zero export function

DUAL-MPPT

- Compact design, lightweight
- Natural cooling, no fans, low noise
- RS485/Bluetooth
Optional: WiFi/Ethernet

Datasheet

SOFAR
3KTLM-G3SOFAR
3.6KTLM-G3SOFAR
4KTLM-G3SOFAR
4.6KTLM-G3SOFAR
5KTLM-G3SOFAR
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 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	98.2%			98.4%		
European efficiency	97.3%			97.5%		
Protection						
DC reverse polarity protection	Yes					
DC switch	Yes					
Safety protection	Anti-islanding, RCMU, Ground fault monitoring					
SPD	MOV: 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)	9.2			10		
Cooling	Natural					
Dimension (mm)	349*344*164					
Display	LCD, App via Bluetooth					
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, IEC62116, 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					

SOFAR 3K / 3.6K / 4K / 4.6K / 5K / 6KTLM-G3_EN_202206

**SOFAR**

7K~10.5KTLM-G3

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

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 7.7KTLM-G3	SOFAR 8KTLM-G3	SOFAR 9KTLM-G3	SOFAR 10KTLM-G3	SOFAR 10.5KTLM-G3
Input (DC)						
Recommended max. PV input power (Wp)	10500	10500	12000	13500	15000	15000
Max. DC power for single MPPT (W)	6600 / 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	7700	8000	9000	10000	10500
Max. AC power (VA)	7700	7700	8800	9900	10000	10500
Max. output current (A)	35		40	45	46	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						
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					