



SOFAR

1100 ... 3300TL-G3

1100 / 1600 / 2200 / 2700 / 3000 / 3300

SINGLE-PHASE

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

SINGLE-MPPT

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

Datasheet	SOFAR 1100TL-G3	SOFAR 1600TL-G3	SOFAR 2200TL-G3	SOFAR 2700TL-G3	SOFAR 3000TL-G3	SOFAR 3300TL-G3
Input (DC)						
Recommended max. PV input power (Wp)	1500	2200	3000	3700	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 / H4					
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 – 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 weighted 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 / WiFi, optional: 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					
DC switch	Optional					
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					
Warranty	10 years, optional: up to 20 years					
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					