



# SOFAR 1k~3kTL

1100/1600/2200/2700/3000



## Single-Phase Single-MPPT

- Easy installation
- IP65 ingress protection
- Max. efficiency up to 97.2%
- Super large 4-inch LCD
- Wide input voltage operation range
- Smart monitoring, RS485, Wifi/Ethernet/GPRS (optional)

Datasheet	SOFAR 1100TL	SOFAR 1600TL	SOFAR 2200TL	SOFAR 2700TL	SOFAR 3000TL
<b>Input (DC)</b>					
Recommended Max. PV Input power	1200W	1800W	2400W	2900W	3300W
Max. Input voltage	450V	450V	500V	500V	500V
Number of MPPT/ String per MPPT	1/1				
Start-up input voltage	100V	100V	120V	120V	120V
Rated input voltage	360V				
MPPT voltage range	80-450V	80-450V	100-500V	100-500V	100-500V
Full load DC voltage range	110-450V	145-450V	170-500V	200-500V	200-500V
Max. Input current	10A	10A	13A	13.5A	15A
Maximum DC input short circuit current per MPPT	12.5A	12.5A	16.5A	17A	19A
<b>Output (AC)</b>					
Rated power	1000W	1550W	2100W	2600W	3100W
Max. AC power	1000VA	1550VA	2100VA	2600VA	3100VA
Max. AC output current	4.5A	7A	9.5A	11.5A	13A
Nominal grid voltage	L/N/PE: 220VAc, 230VAc, 240VAc				
Grid voltage range	180VAc, 276VAc (According to local standard)				
Nominal frequency	50Hz/60Hz				
Grid frequency range	45Hz-55Hz/54Hz-66Hz (According to local standard)				
THDI	< 3%				
Power factor	1 (default) (adjustable +/- 0.8)				
Power limit export	Zero export or adjustable power limit export				
<b>Efficiency</b>					
Max. Efficiency	97.0%	97.0%	97.0%	97.1%	97.2%
Eu-operational efficiency	95.2%	95.9%	96.1%	96.4%	96.5%
MPPT adaptation efficiency	> 99.9%				
<b>Protection</b>					
Anti-islanding protection	Yes				
DC reverse polarity protection	Yes				
Over temp protection	Yes				
Leakage current protection	Yes				
Over voltage protection	Yes				
Over current protection	Yes				
Earth fault protection	Yes				
SPD	MOV, Type III standard				
<b>Communication</b>					
Standard communication mode	RS485, WiFi/Ethernet/GPRS (optional), SD card (optional)				
Operation data storage	25 Years				
I/O	Yes				
<b>General Data</b>					
Topology	Transformerless				
Ambient temperature range	-30°C ~ +60°C				
Allowable relative humidity range	0-100%				
Noise	< 25dB				
DC Switch	Optional				
Cooling	Natural				
Max. Operating altitude	2000m				
Dimension	405*314*135mm				
Self consumption at night	< 1W				
Weight	11kg	11kg	12kg	12kg	12kg
Display	LCD display				
Degree of protection	IP65				
Warranty	5 years/ 7 years/ 10 years				
<b>Standard</b>					
EHC	EN 61000-6-2, EN 61000-6-3, EN 61000-3-2, EN 61000-3-3 (IEC 6109-1/2, IEC 62116, IEC 61727, IEC 61465, IEC 60681-1, 2, 14, 30)				
Safety standards	AS/NZS 4777, VDE V 0124-100, VDE V 0126-1-1, VDE-AR-N 4105, CEI 0-21, EN 50438/EN 50439, GRI/G83, C1011, RD1499, UTE C15-712-1, ABNT NBR 16149/16150 (for SOFAR3000TL)				
Grid standards	AS/NZS 4777, VDE V 0124-100, VDE V 0126-1-1, VDE-AR-N 4105, CEI 0-21, EN 50438/EN 50439, GRI/G83, C1011, RD1499, UTE C15-712-1, ABNT NBR 16149/16150 (for SOFAR3000TL)				