



# 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	1470Wp	2130Wp	2930Wp	3600Wp	3990Wp
Max. Input voltage	450V	450V	500V	500V	500V
Number of MPPT/ String per MPPT	1/1				
Start-up voltage	100V	100V	120V	120V	120V
Rated input voltage	360V				
MPPT operating voltage range	90-450V	90-450V	100-500V	100-500V	100-500V
Full power MPPT voltage range	110-450V	165-450V	170-500V	200-500V	200-500V
Max. Input current	10A	10A	13A	13.5A	15A
Maximum DC input short circuit current per MPPT	12A	12A	15A	15A	15A
<b>Output (AC)</b>					
Rated power	1000W	1550W	2100W	2600W	3000W
Max. AC power	1000VA	1550VA	2100VA	2600VA	3000VA
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%
European weighted 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				
<b>General Data</b>					
Topology	Transformerless				
Ambient temperature range	-25°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>					
EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-3-2, EN 61000-3-3				
Safety standards	IEC62109-1/2, IEC62116, IEC61727, IEC-61683, IEC60068(1,2,14,30)				
Grid standards	AS/NZS 4777, VDE V 0124-100, VDE V 0126-1-1, VDE-AR-N 4105, CEI 0-21, EN50549, G98/G83, C10/11, RD1699, UTE C15-712-1; ABNT NBR 16149/16150 (for SOFAR3000TL)				