



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
Input (DC)					
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	13A	13A
Maximum DC input short circuit current per MPPT	12A	12A	15A	15A	15A
Output (AC)					
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				
Efficiency					
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%				
Protection					
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				
Communication					
Standard communication mode	Rs485, WiFi/Ethernet/GPRS(optional), SD card(optional)				
Operation data storage	25 Years				
General Data					
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				
Standard					
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 CI5-712-1; ABNT NBR 16149/16150 (for SOFAR3000TL)				