



SOFAR 10K~15KTL-G2

10000 / 12000 / 15000

Three-Phase

Dual-MPPT



Fuse free design



Max. efficiency up to 98.3%



Built-in DRM port and logic



Outdoor IP65 protection level



I-V curve scanning function



Smart control and flexible configuration

Datasheet	SOFAR I1000TL-G2	SOFAR I2000TL-G2	SOFAR I5000TL-G2
Input (DC)			
Max. PV input power	18000Wp	18000Wp	22500Wp
Max DC power for single MPPT	11000W/7500W	11000W/7500W	13000W/7500W
Number of MPP trackers	2		
Number for DC inputs	2/1		
Max. input voltage	1000V		
Start-up voltage	200V		
Rated input voltage	600V		
MPPT operating voltage range	160V-960V		
Full power MPPT voltage range	350V-850V	500V-850V	500V-850V
Max. input MPPT current	21A/11A		
Maximum DC input short circuit current per MPPT	30A/15A		
Output (AC)			
Rated power	10000W	12000W	15000W
Max. AC power	11000VA	13200VA	16500VA
Max. Output current	3*16.5A	3*20A	3*24A
Nominal grid voltage	3/N/PE, 220/380Vac, 230/400Vac, 240/415Vac		
Grid voltage range	310Vac-480Vac (According to local standard)		
Nominal frequency	50/60Hz		
Grid Frequency range	45Hz-55Hz/54Hz-66Hz (According to local standard)		
Active power adjustable range	0~100%		
THDi	<3%		
Power factor	>0.99 (adjustable +/-0.8)		
Performance			
Max efficiency	98.3%		
European weighted efficiency	98.0%		
Self-consumption at night	<1W		
MPPT efficiency	>99.9%		
Protection			
DC reverse polarity protection	Yes		
DC switch	Yes		
ARPC	Anti reverse power controller (optional)		
Safety protection	Anti islanding, RCMU, Ground fault monitoring		
Communication			
Power management unit	According to certification and request		
Standard communication mode	RS485, Wifi/Ethernet/GPRS (optional), SD card/Digital Input and Output (IOs)		
Operation data storage	25 years		
General Data			
Ambient temperature range	-25°C ~ +60°C		
Topology	Transformerless		
Degree of protection	IP65		
Allowable relative humidity range	0~100%		
Max. Operating altitude	2000m		
Noise	<45dB		
Weight	23.5kg	23.5kg	25kg
Cooling	Fan		
Dimension	539*452*202mm		
Display	LCD display		
Warranty	5 years/ 7 years/ 10 years		
Standard			
EMC	EN 61000-6-1, EN 61000-6-3		
Safety standards	IEC62109-1/2, IEC62116, IEC61727, IEC-61683, IEC60068(1,2,14,30)		
Grid standards	AS/NZS 4777, VDE-AR-N 4105, CEI 0-21, EN50549, V 0126-1-1, NB/T32004		