



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	19950Wp
Max DC power for single MPPT	11000W/7500W	11000W/7500W	11000W/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
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