



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	