





# 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	18000W	18000W	19950W
Max DC power for single MPPT	11000W/7500W	11000W/7500W	11000W/7500W
Number of MPPT trackers		2	
Number for DC inputs		3	
Max. input voltage		1000V	
Start-up voltage		200V	
Rated input voltage		600V	
MPPT operating voltage range		160V-960V	
Full power MPPT voltage range		300V-840V	
Max. input MPPT current		21A/11A	
Maximun 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		1 default (+/-0.8 adjustable)	

### 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	Transformer-less		
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, EN50438/EN50549, V 0126-1-1, NB/T32004