



# SOFAR 20k~33kTL-G2

20000/ 25000/ 30000/ 33000

## Three-Phase Dual-MPPT

4"

Super large 4-inch LCD

1100v

1100V voltage level design

DRM

Built-in DRM port and logic

98.6%

Max. efficiency up to 98.6%

I-V

I-V curve scanning function

SPD

Built-in SPD, over / under pressure, over current, over temperature, island and other multiple protections

# Datasheet

**SOFAR**  
**20000TL-G2**

**SOFAR**  
**25000TL-G2**

**SOFAR**  
**30000TL-G2**

**SOFAR**  
**33000TL-G2**

## Input (DC)

Recommended Max. PV input power	26600Wp	33250Wp	39900Wp	43890Wp
Max DC power for single MPPT	13000W	16000W	18000W	20000W
Number of MPP trackers			2	
Number for DC inputs	2 for each MPPT	3 for each MPPT	3 for each MPPT	3 for each MPPT
Max. input voltage			1100V	
Start-up voltage			250V	
Rated input voltage			620V	
MPPT operating voltage range			230V-960V	
Full power MPPT voltage range	480V-850V	460V-850V	520V-850V	580V-850V
Max. input MPPT current	24A/24A	28A/28A	30A/30A	30A/30A
Maximum DC input short circuit current per MPPT	30A	35A	37.5A	37.5A

## Output (AC)

Rated power	20000W	25000W	30000W	33000W
Max. AC power	22000VA	27500VA	33000VA	36300VA
Max. Output current	32A	40A	48A	53A
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	98.2%	98.4%	98.4%	98.6%
European weighted efficiency	98.0%	98.2%	98.2%	98.2%
Self-consumption at night			<1W	
MPPT efficiency			>99.9%	

## Protection

DC reverse polarity protection			Yes	
DC switch			Yes	
Protection class/ overvoltage category			I/III	
Safety protection		Anti islanding, RCMU, Ground fault monitoring		
ARPC		Anti reverse power controller (optional)		

## 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	<30dB	<45dB	<45dB	<45dB
Weight		37kg		
Cooling	Natural	Fan	Fan	Fan
Dimension		666*512*254mm		
Display		LCD display		
Warranty		5 years/ 7 years/ 10 years		

## Standard

EMC	EN 61000-6-2, EN 61000-6-3, EN 61000-3-11, EN 61000-3-12
Safety standards	IEC62109-1/2, IEC62116, IEC61727, IEC-61683, IEC60068(1,2,14,30), IEC60255
Grid standards	AS/NZS 4417, VDE V 0124-100, V 0126-1-1, VDE-AR-N 4105, CEI 0-21/CEI 0-16, EN 50549, G59, P.O. 12.3, RD1699, UTE C15-712-1, EN 50530, NB/T32004