



# 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 curve scanning function



Built-in SPD, over / under voltage, over current, over temperature, Anti-islanding and other multiple protections

# Datasheet

**SOFAR  
20000TL-G2**

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25000TL-G2**

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30000TL-G2**

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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				Transformerless
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	IEC 61000-6-2, IEC 61000-6-3, IEC 61000-3-11, IEC 61000-3-12, IEC 62109-1/2, IEC 62116, IEC 61727, IEC 61683, IEC 60068(1,2,14,30), IEC 60255			
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			