

Datasheet

**SOFAR
20000TL-G2**

**SOFAR
25000TL-G2**

**SOFAR
30000TL-G2**

**SOFAR
33000TL-G2**

Input (DC)

Recommended Max. PV input power	26600W	33250W	39900W	43890W
Max DC power for single MPPT	13000W	16000W	18000W	20000W
Number of MPPT 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	300V			
Rated input voltage	620V			
MPPT operating voltage range	230V-960V			
Full power MPPT voltage range	430V-750V	460V-750V	520V-750V	580V-750V
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	1 default (+/-0.8 adjustable)			

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 61000-3-12, EN 61000-3-11
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, EN50438/EN50549, G59, P.O. 12.3, RD1699, UTE C15-712-1, EN50530, NB/T32004