



# SOFAR 10k~20kTL

10000/15000/17000/20000

## Three-Phase Dual-MPPT



Super large 4-inch LCD



Max. efficiency up to 98.2%



Built-in DRM port and logic



Smart monitoring, RS485, Wifi/Ethernet/GPRS (optional)



I-V curve scanning function



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

Datasheet	SOFAR 10000TL	SOFAR 15000TL	SOFAR 17000TL	SOFAR 20000TL
<b>Input (DC)</b>				
Recommended Max. PV input power	13300Wp	19950Wp	22610Wp	26600Wp
Max DC power for single MPPT	6750W	10500W	10500W	12000W
Number of MPP trackers	2			
Number for DC inputs	2 for each MPPT			
Max. input voltage	1000V			
Start-up voltage	350V			
Rated input voltage	600V			
MPPT operating voltage range	250V-960V			
Full power MPPT voltage range	350V-850V	370V-850V	420V-850V	430V-850V
Max. input current per MPPT	15A/15A	21A/21A	21A/21A	24A/24A
Maximum DC input short circuit current per MPPT	20A	27A	27A	30A
<b>Output (AC)</b>				
Rated power	10000W	15000W	17000W	20000W
Max. AC power	10000VA	15000VA	17000VA	20000VA
Max. Output current	15A	22A	25A	29A
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)			
<b>Performance</b>				
Max efficiency	98.2%	98.2%	98.2%	98.2%
European weighted efficiency	97.6%	97.9%	97.9%	98.0%
Self-consumption at night	<1W			
MPPT efficiency	>99.9%			
<b>Protection</b>				
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)			
Input/output SPD (II)	Optional			
<b>Communication</b>				
Power management unit	According to certification and request			
Standard communication mode	RS485, Wifi/Ethernet/GPRS (optional), SD card, Multi-function relay			
Operation data storage	25 years			
<b>General Data</b>				
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	45kg	45kg	48kg	48kg
Cooling	Natural			
Dimension	709*492*246mm			
Display	LCD display			
Warranty	5 years/ 7 years/ 10 years			
<b>Standard</b>				
EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4			
Safety standards	IEC62109-1/2, IEC62116, IEC61727, IEC-61683, IEC60068(1,2,14,30), IEC60255			
Grid standards	AS/NZS 4777, VDE V 0124-100, V 0126-1-1, VDE-AR-N 4105, CEI 0-21/CEI 0-16, EN50549, G83/G59, C10/11, Rd1699, UTE C15-712-1, EN50530			

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