



# SOFAR

## 27.5~33KTL-LV

27500 / 33000



### Three-Phase Three-MPPT

- 4"** Super large 4-inch LCD
- Outdoor IP65** protection level
- Sound and light** alarm function
- DC SPD Class 2**, over/under voltage, over current, over temperature, island and other multiple protections
- Fuse free** design
- DRM** Built-in DRM port and logic
- 98.6%** Max. efficiency up to 98.6%

### Datasheet

#### SOFAR 27500TL-LV

#### SOFAR 33000TL-LV

#### Input (DC)

Recommended Max. PV input power	36600W	43900W
Max DC power for single MPPT	22000W 16000W 16000W	22000W 22000W 22000W
Number of MPP trackers		3
Number for DC inputs	4/3/3	4/4/4
Max. input voltage		1000V
Start-up voltage		350V
Rated input voltage		600V
MPPT operating voltage range		250V-950V
Full power MPPT voltage range		530V-800V
Max. input MPPT current	40A/30A/30A	40A/40A/40A
Max. input current per string		12A
Maximum DC input short circuit current per MPPT	48A/36A/36A	48A/48A/48A

#### Output (AC)

Rated power	27500W	33000W
Max. AC power	27500VA	33000VA
Max. Output current	80A	90A
Nominal grid voltage		3/N/PE, 127/220Vac
Grid voltage range		187Vac-242Vac (According to local standard)
Nominal frequency		60Hz
Grid Frequency range		59Hz-61Hz (According to local standard)
Active power adjustable range		0~100%
THDi		< 3%
Power factor		>0.99 (adjustable +/-0.8)

#### Performance

Max efficiency	98.5%	98.6%
European weighted efficiency	98.3%	98.4%
Self-consumption at night		< 1W
MPPT efficiency		> 99.9%

#### Protection

DC reverse polarity protection	Yes
DC switch	Yes
Protection class/ overvoltage category	I/III
Input/output SPD(III)	PV: type II standard, AC: type II optional
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, Multi-function relay
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	4000m	
Noise	≤60dB	
Weight	68kg	70kg
Cooling	Fan	
Dimension	713*737*297mm	
Display	LCD display	
Warranty	5 years/ 7 years/ 10 years	

#### Standard

EMC	EN 61000-6-2, EN 61000-6-4, EN 61000-3-11, EN 61000-3-12
Safety standards	IEC62109-1/2, IEC62116, IEC61727, IEC-61683, IEC60068(1,2,14,30)
Grid standards	AS/NZS 4777, VDE V 0124-100, V 0126-1-1, VDE-AR-N 4105, BDEW, CEI 0-21/CEI 0-16, UNE 206 007-1, EN50549, G59, EN50530, NB/T32004