



SOFAR 3K~6KTLM

3000/3680/4000/4600/5000/6000

Single-Phase Dual-MPPT

- 0** Built-in zero export function
- IP65** IP65 ingress protection
- Smart** Smart monitoring, RS485, Wifi/Ethernet/GPRS (optional)
- I-V** I-V curve scanning function
- 4"** Super large 4-inch LCD

Datasheet

**SOFAR
3000TLM**

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3680TLM**

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4600TLM**

**SOFAR
5000TLM**

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6000TLM**

Input (DC)

Recommended Max. PV input power	3990Wp	4900Wp	5320Wp	6120Wp	6650Wp	7980Wp
Max DC power for single MPPT	2000W	2400W	2600W	3000W	3000W	3150W
Number of MPP trackers	2					
Number of DC inputs	1 for each MPPT					
Max. Input voltage	600V					
Start-up voltage	100V	120V	120V	120V	120V	120V
Rated input voltage	360V					
MPPT operating voltage range	100V-550V	100V-550V	100V-550V	100V-550V	100V-550V	100V-580V
Full power MPPT voltage range	160V-500V	165V-500V	165V-500V	165V-500V	175V-500V	250V-520V
Max. Input current per MPPT	10A/10A	12A/12A	13A/13A	15A/15A	15A/15A	15A/15A
Maximun DC input short circuit current per MPPT	12A	14A	16A	18A	18A	18A

Output (AC)

Rated power	3000W	3680W	4000W	4600W	5000W	6000W
Max. AC power	3000VA	3680VA	4000VA	4600VA	5000VA	6000VA
Max. Output current	13A	16A	17.5A	20A	22A	26A
Nominal grid voltage	L/N/PE, 220Vac, 230Vac, 240Vac					
Grid voltage range	180Vac-276Vac (According to local standard)					
Nominal frequency	50Hz/60Hz					
Grid frequency range	45Hz-55Hz/54Hz-66Hz (According to local standard)					
Active power adjustable range	0-100%					
THDi	<3%					
Power factor	1 default (adjustable +/-0.8)					
Power limit export	Zero export or adjustable power limit export					

Performance

Max efficiency	97.6%
European weighted efficiency	97.1% / 97.3%
Self-consumption at night	< 1W
MPPT efficiency	>99.9%

Protection

DC reverse polarity protection	Yes
DC switch	Optional
Protection class/overvoltage category	I/III
Input/output MOV (II)	Yes
Safety protection	Anti islanding, RCMU, Ground fault monitoring
SPD	MOV: Type III standard

Communication

Power management unit	According to certification and request
Standard communication mode	RS485, Wifi/Ethernet/GPRS, SD card(optional)
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	<25dB					
Weight	18kg	18kg	18kg	19kg	19kg	19kg
Cooling	Natural					
Dimension	344*478*170mm					
Display	LCD display					
Warranty	5 years/ 7 years/ 10 years					

Standard

EMC	EN 61000-6-2, EN 61000-6-3, EN 61000-3-2, EN 61000-3-3, 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, CEI 0-21, EN50549, G83/G59, C10/11, RD1699, UTE C15-712-I					