



# SOFAR 3k~6kTLM

3000/3680/4000/4600/5000/6000



## Single-Phase      Dual-MPPT

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

Datasheet	SOFAR 3000TLM	SOFAR 3680TLM	SOFAR 4000TLM	SOFAR 4600TLM	SOFAR 5000TLM	SOFAR 6000TLM
<b>Input (DC)</b>						
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
Maximum DC input short circuit current per MPPT	12A	14A	16A	18A	18A	18A
<b>Output (AC)</b>						
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					
<b>Performance</b>						
Max efficiency	97.6%					
European weighted efficiency	97.1% / 97.3%					
Self-consumption at night	< 1W					
MPPT efficiency	> 99.9%					
<b>Protection</b>						
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					
<b>Communication</b>						
Power management unit	According to certification and request					
Standard communication mode	RS485, Wifi/Ethernet/GPRS, SD card(optional)					
Operation data storage	25 years					
<b>General Data</b>						
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					
<b>Standard</b>						
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 C15-712-1					