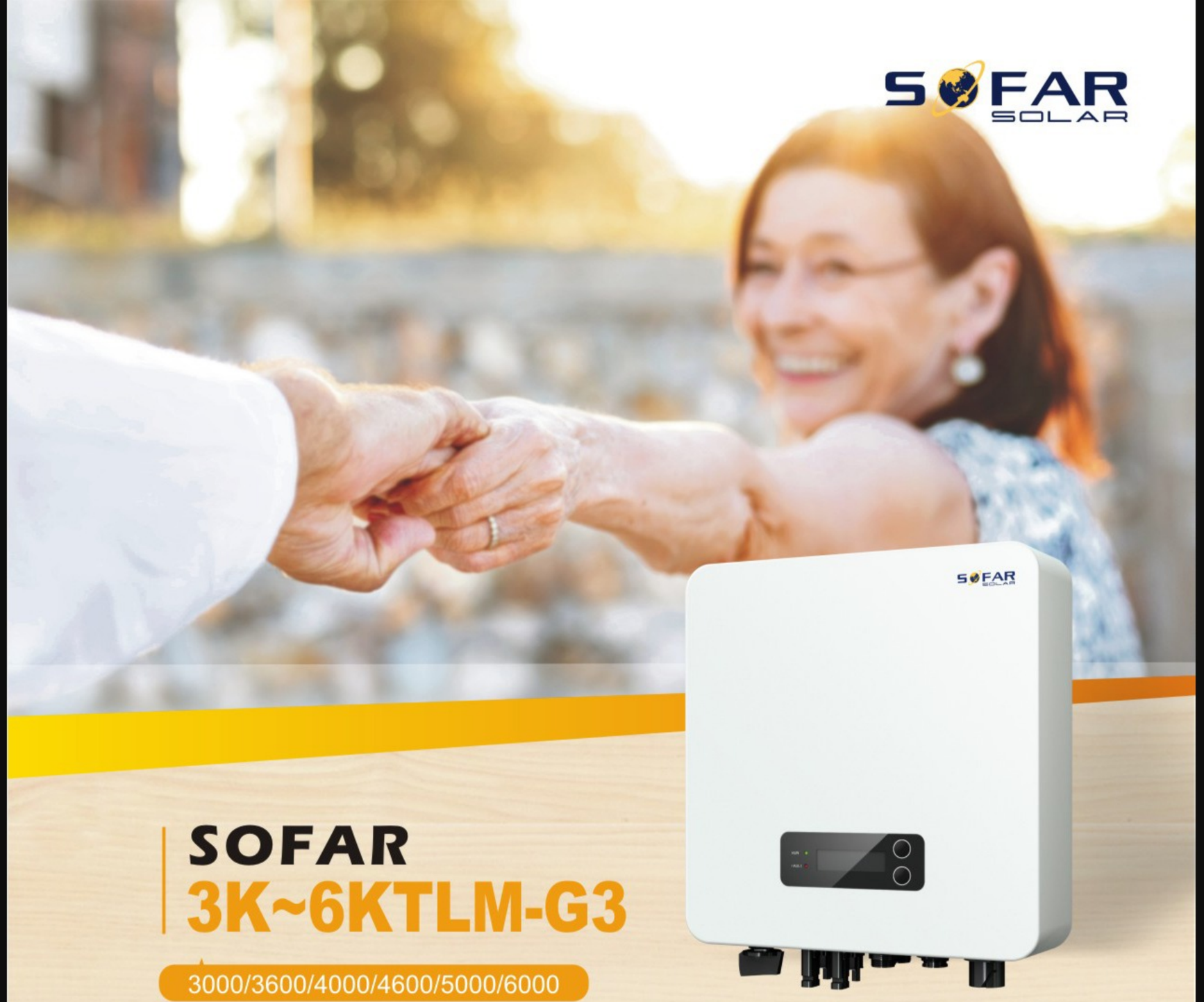


SOFAR 3K~6KTLM-G3

3000/3600/4000/4600/5000/6000

Single-Phase Dual-MPPT

- Built-in zero export function
- Optional AFCI function
- Compact design, light in weight
- Natural cooling, no fans, low noise
- Max. efficiency up to 98.4%
- Two MPP trackers with 1.5*DC overload
- Smart monitoring, remote firmware upgrade

Datasheet	SOFAR 3KTLM-G3	SOFAR 3.6KTLM-G3	SOFAR 4KTLM-G3	SOFAR 4.6KTLM-G3	SOFAR 5KTLM-G3	SOFAR 6KTLM-G3
Input (DC)						
Recommended Max. PV input power	4500Wp	5400Wp	6000Wp	6900Wp	7500Wp	9000Wp
Max DC power for single MPPT	3500W					
Number of MPP trackers	2					
Number of DC inputs	1 for each MPPT					
Max. Input voltage	600V					
Start-up voltage	60V					
Rated input voltage	360V					
MPPT operating voltage range	50V-570V					
Full power MPPT voltage range	125V-520V	150V-520V	165V-520V	190V-520V	210V-520V	250V-520V
Max. Input MPPT current	12.5A/12.5A					
Max. input short circuit current per MPPT	15A/15A					
Output (AC)						
Rated power	3000W	3680W	4000W	4600W	5000W	6000W
Max. AC power	3000VA	3680VA	4000VA	4600VA	5000VA	6000VA
Nominal output current	13A	16A	17.4A	20A	21.7A	26.1A
Max. Output current	14.4A	16A	19.3A	22.2A	24.1A	28.9A
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	1default (adjustable+/-0. 8)					
Power limit export	Zero export or adjustable power limit export					
Performance						
Max efficiency	98.2%	98.2%	98.4%	98.4%	98.4%	98.4%
European weighted efficiency	97.3%	97.3%	97.3%	97.5%	97.5%	97.5%
Self-consumption at night	<1W					
MPPT efficiency	>99.9%					
Protection						
DC reverse polarity protection	Yes					
DC switch	Optional					
AFCI protection	Optional					
Protection class/overvoltage category	I/III					
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/USB, Optional: WiFi/GPRS					
Operation data storage	25 years					
General Data						
Ambient temperature range	-30℃~+60℃					
Topology	Transformerless					
Degree of protection	IP65					
Allowable relative humidity range	0~100%					
Max. Operating altitude	4000m					
Noise	<25dB					
Weight	10kg					
Cooling	Natural					
Dimension	345*341*167mm					
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	VDE-AR-N 4105, VDE V 0126-1-1, V 0124-100, AS/NZS 4777, CEI 0-21, G98/G99, C10/11, EN 50549, RD 1699					