



SOFAR INVERTER

6KTLM-G3

SINGLE-PHASE | DUAL-MPPT

INV065

FEATURES & BENEFITS

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

SOFAR INVERTER	6KTLM-G3
Product Code	INV065
INPUT (DC)	
Recommended Max. PV input power	9000Wp
Max DC powcr 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	250V- 520V
Max Input MPPT current	12.5A/12.5A
Max input short circuit current per MPPT	15A/15A

SOFAR INVERTER	6KTLM-G3
OUTPUT(AC)	
Rated power	6000W
Max AC power	6000VA
Nominal output current	26.1A
Max. Output current	28.9A
Nominal grid voltage	L/N/PE, 220Vac, 230Vac, 240Vac
Grid voltage range	l 80Vac - 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	98.40%
European weighted efficiency	97.50%
Self-consumption at night	< 1W
MPPT efficiency	> 99.9 %
PROTECTION	
DC reverse polarity protection	Yes
DC switch	Optional
AFCI protection	Optional
Protection class/over voltage category	1/111
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	RS48S/USB. Optional: WiFi / GPRS
Operation data storage	25 years
GENERAL DATA	
Ambient temperature range	- 30°C ~ + 60°C
Topology	Transformer-less
Degree of protection	IP65
Allowable relative humidity range	0 ~ 1 00%
Max. Operating altitude	4000m
Noise	< 25dB
Weight	10kg
Cooling	Natural
Dimension	345*341*167mm
Display	LCD display
STANDARD	
EMC	EN 61 000-6-2. 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- N4105. VDE V 0126-1-1, V0124- 100. AS/NZS 4777. CEI 0-21 . G98/G99, C 10/11 . EN 50549. RD 1699
Warranty	5 years