



# SOFAR THREE-PHASE INVERTER

**100KTL-HV** INV068

## FEATURES & BENEFITS

- Max. efficiency up to 99%
- Outdoor IP66 protection level
- Type II SPD for both DC and AC
- Support Modbus communication, external WiFi/PLC/GPRS (optional)
- AC/DC dual power supply redundant design, 24-hour status monitoring
- Remote firmware upgrade
- I-V curve scanning function
- Maximum 12MPP trackers with 1.5\* DC overload

SOFAR INVERTER	100KTL
Product Code	INV068
<b>INPUT (DC)</b>	
Max. input voltage	1100V
Rated input voltage	625V
Start-up voltage	200V
MPPT operating voltage range	180V-1000V
Full power MPPT voltage range	500V-850V
Number of MPP trackers	10
Number for DC inputs	20
Max. input current per MPPT	26
Max. input short circuit current per MPPT	40

SOFAR INVERTER	100KTL
<b>OUTPUT(AC)</b>	
Rated power	100kW
Max. AC power	110kVA
Max. output current	160A
Nominal grid voltage	3/N/PE, 230V/400Vac, 220V/380Vac
Grid voltage range	310Vac-480Vac
Nominal frequency	50/60Hz
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)
<b>PERFORMANCE</b>	
Max. Efficiency	98,70%
European efficiency	98,30%
<b>PROTECTION</b>	
DC reverse polarity protection	Yes
Anti-islanding protection	Yes
Leakage current protection	Yes
Ground fault monitoring	Yes
PV-array string fault monitoring	Yes
Zero voltage ride through	Yes
DC switch	Yes
Anti-PID protection	Optional
AFCI	Optional
Protection class/ Over-voltage category	I/III
Input/ Output SPD	PV: type II standard, AC: type II standard
<b>COMMUNICATION</b>	
Communication	RS485, Optional: WiFi / GPRS / PLC / 4G
<b>GENERAL DATA</b>	
Ambient temperature range	-30°C~+60°C
Topology	Transformer-less
Degree of protection	IP66
Allowable relative humidity range	0~100%
Max. operating altitude	4000m
Weight	90kg
Cooling	Smart forced air cooling
Dimension	995.5*663.5*368mm
Display	LCD&Bluetooth+APP
<b>STANDARD</b>	
EMC	EN 61000-6-2, EN 61000-6-4
Safety standard	IEC62109-1/2, IEC62116, IEC61727, IEC-61683, IEC60068(1,2,14,30)
Grid standard	AS/NZS 4777, VDE V 0124-100, V 0126-1-1, VDE-AR-N 4105, CEI 0-21/CEI 0-16, UNE 206 007-1, EN50549, G99, EN50530, NB/T32004
Warranty	5 years