







SOFAR 75K~136KTL

75KTL/80KTL/100KTL/110KTL/100KTL-HV/125KTL-HV/136KTL-HV

Three-Phase

Eight to twelve MPPTs

-  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 12 MPP trackers with 1.5* DC overload

Datasheet

**SOFAR
75KTL****SOFAR
80KTL****SOFAR
100KTL****SOFAR
110KTL****SOFAR
100KTL-HV****SOFAR
125KTL-HV****SOFAR
136KTL-HV**

Input (DC)

Max. input voltage				1100V			
Rated input voltage	625V	625V	625V	625V	725V	725V	785V
Start-up voltage				200V			
MPPT operating voltage range				180V-1000V			
Full power MPPT voltage range	500V-850V	500V-850V	500V-850V	500V-850V	550V-850V	550V-850V	550V-850V
Number of MPP trackers	8	8	10	10	10	10	12
Number for DC inputs	16	16	20	20	20	20	24
Max. input current per MPPT				26A			
Max. input short circuit current per MPPT				40A			

Output (AC)

Rated power	75kW	80kW	100kW	110kW	100kW	125kW	136kW
Max. AC power	75kVA	88kVA	110kVA	121kVA	110kVA	137kVA	150kVA
Max. output current	113A	128A	160A	175A	128A	160A	160A
Nominal grid voltage		3/N/PE, 230V/400Vac, 220V/380Vac			3/PE, 500Vac	3/PE, 500Vac	3/PE, 540Vac
Grid voltage range	310Vac-480Vac	310Vac-480Vac	310Vac-480Vac	310Vac-480Vac	400Vac-575Vac	400Vac-575Vac	432Vac-621Vac
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				1 default (adjustable +/-0.8)			

Performance

Max. Efficiency	98.60%	98.60%	98.70%	98.75%	98.80%	99.00%	99.00%
European weighted efficiency	98.20%	98.20%	98.30%	98.30%	98.50%	98.50%	98.51%
MPPT efficiency				>99.9%			

Protection

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 function	Optional
AFCI protection	Optional
Protection class/ Overvoltage category	I/III
Input/ Output SPD	PV: type II standard, AC: type II standard

Communication

Communication	RS485/Bluetooth/USB, Optional:WiFi /GPRS /PLC
---------------	---

General Data

Ambient temperature range	-30°C ~ +60°C
Topology	Transformerless
Degree of protection	IP66
Allowable relative humidity range	0-100%
Max. operating altitude	4000m
Weight	88kg 88kg 90kg 90kg 90kg 90kg 92kg
Cooling	Smart forced air cooling
Dimension	995.5*663.5*368mm
Display	LCD&Bluetooth+APP
Standard warranty	5 years, Optional: 7 years / 10 years

Standard

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