



# SOFAR 80K~136KTL

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

## Three-Phase

## Eight to twelve MPPTs



Max. efficiency up to 99%



Remote firmware upgrade



Outdoor IP66 protection level



I-V curve scanning function



Type II SPD for both DC and AC



Maximum 12 MPP trackers with 1.5\* DC overload



Support Modbus communication, external Wifi/ PLC/ GPRS (optional)



AC / DC dual power supply redundant design, 24-hour status monitoring

Authorised Distributor: Monosun Technology Co.,Ltd.12/493 Moo3 Cahaofa TawanTok Rd.T. Whichit. A.Muang. Phuket. Thailand 83000

Monosun Technology Co., Ltd info@monosun.net www. monosun.net Office Tel : 076-263717 Service Tel : 083-5502272

Datasheet	SOFAR 80KTL	SOFAR 100KTL	SOFAR 110KTL	SOFAR 100KTL-HV	SOFAR 125KTL-HV	SOFAR 136KTL-HV
<b>Input (DC)</b>						
Max. input voltage	1100V					
Rated input voltage	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	550V-850V	550V-850V	550V-850V
Number of MPP trackers	8	10	10	10	10	12
Number for DC inputs	16	20	20	20	20	24
Max. input current per MPPT	26A					
Max. input short circuit current per MPPT	40A					
<b>Output (AC)</b>						
Rated power	80kW	100kW	110kW	100kW	125kW	136kW
Max. AC power	88kVA	110kVA	121kVA	110kVA	137kVA	150kVA
Max. output current	128A	160A	175A	128A	160A	160A
Nominal grid voltage	3/N/PE, 230V/400Vac, 220V/380Vac			3/PE, 288V/500Vac	3/PE, 288V/500Vac	3/PE, 311V/540Vac
Grid voltage range	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)					
<b>Performance</b>						
Max. Efficiency	98.60%	98.70%	98.75%	98.80%	99.00%	99.00%
European weighted efficiency	98.20%	98.30%	98.30%	98.50%	98.50%	98.51%
MPPT efficiency	> 99.9%					
<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/ Overvoltage category	I/III					
Input/ Output SPD	PV: type II standard, AC: type II standard					
<b>Communication</b>						
Power management unit	According to certification and request					
Communication	RS485, Optional: WiFi/GPRS/PLC					
Operation data storage	25 years					
<b>General Data</b>						
Ambient temperature range	-30°C~ +60°C					
Topology	Transformerless					
Degree of protection	IP66					
Allowable relative humidity range	0~100%					
Max. operating altitude	4000m					
Noise	≤60 dB					
Weight	85kg	90kg	90kg	85kg	90kg	92kg
Cooling	Smart forced air cooling					
Dimension	995.5*693.5*368mm					
Display	LCD&Bluetooth+ APP					
Warranty	5 years/ 7 years/ 10 years					
<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					

Authorised Distributor: Monosun Technology Co.,Ltd.12/493 Moo3 Cahaofa TawanTok Rd.T. Whichit. A.Muang. Phuket. Thailand 83000