









# SOFAR 3.3k~12kTL-X

3300/4400/5000/5500/6600/8800/11000/12000



## Three-Phase Dual-MPPT

-  Integrated with DC switch
-  Super large 4-inch LCD
-  Smart monitoring, RS485, Wifi/Ethernet/GPRS (optional)
-  Over / under voltage, over current, over temperature, Anti-islanding and other multiple protections
-  **98.3%** Max. efficiency up to 98.3%
-  **DRM** Built-in DRM port and logic

Datasheet	SOFAR <sup>*</sup> 3.3KTL-X	SOFAR 4.4KTL-X	SOFAR <sup>*</sup> 5KTL-X (Australia)	SOFAR 5.5KTL-X	SOFAR 6.6KTL-X	SOFAR 8.8KTL-X	SOFAR 11KTL-X	SOFAR 12KTL-X
<b>Input (DC)</b>								
Recommended Max. PV input power	4390Wp	5860Wp	6650Wp	7320Wp	8780Wp	11710Wp	14630Wp	15960Wp
Max DC power for single MPPT	3550W	4500W	5700W	5700W	6250W	6200W	6200W	6850W
Number of MPP trackers	2							
Number of DC inputs	1 for each MPPT							
Max. Input voltage	1000V							
Start-up voltage	200V							
Rated input voltage	600V							
MPPT operating voltage range	160-960V							
Full power MPPT voltage range	160V-850V	190V-850V	240V-850V	240V-850V	290V-850V	380V-850V	480V-850V	575V-850V
Max. Input current per MPPT	11A/11A							
Maximum DC input short circuit current per MPPT	14A							
<b>Output (AC)</b>								
Rated power	3000W	4000W	5000W	5000W	6000W	8000W	10000W	12000W
Max. AC power	3300VA	4400VA	5000VA	5500VA	6600VA	8800VA	11000VA	13200VA
Max. Output current	4.8A	6.4A	8.0A	8.0A	9.6A	12.8A	15.9A	19.1A
Nominal grid voltage	3/N/PE, 220/380Vac, 230/400Vac, 240/415Vac							
Grid voltage range	310Vac-480Vac (According to local standard)							
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	>0.99 (adjustable +/- 0.8)							
Power limit export	Zero export or adjustable power limit export							
<b>Performance</b>								
Max efficiency	98.0%	98.0%	98.0%	98.0%	98.0%	98.3%	98.3%	98.3%
European weighted efficiency	97.5%	97.5%	97.5%	97.5%	97.5%	98.0%	98.0%	98.0%
Self-consumption at night	<1W							
MPPT efficiency	>99.9%							
<b>Protection</b>								
DC reverse polarity protection	Yes							
DC switch	Yes							
Safety protection	Anti islanding, RCMU, Ground fault monitoring							
ARPC	Anti reverse power controller(optional)							
<b>Communication</b>								
Power management unit	According to certification and request							
Communication mode	RS485, Wifi/Ethernet/GPRS(optional), SD card							
Communication protocols	Modbus (SOFARSOLAR, Sunspec)							
Operation data storage	25 years							
<b>General Data</b>								
Ambient temperature range	-25°C~+60°C							
Topology	Transformerless							
Degree of protection	IP65							
Allowable relative humidity range	0-100%							
Max. Operating altitude	2000m							
Noise	<29dB							
Weight	21kg	21kg	21kg	21kg	21kg	22kg	22kg	22kg
Cooling	Natural							
Dimension	457*452*202mm							
Display	LCD display							
Warranty	5 years/ 7 years/ 10 years							
<b>Standard</b>								
EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4							
Safety standards	IEC 62109-1/2, IEC 62116, IEC 61727, IEC 61683, IEC 60068(1,2,14,30), IEC 60255							
Grid standards	VDE-AR-N 4105, VDE V 0124-100, VDE V 0126-1-1, AS/NZS 4777, CEI 0-21, G83/G59, EN 50438/EN 50549, EN 50530, PEA, UTE_C_15_712, NRS 097-2-1, BOE 254, RD 1699							

The models marked with \* \* \* should be available only for some designated countries.