



**SOFAR**

## 3.3K ... 12KTLX-G3

3.3 / 4.4 / 5.5 / 6.6 / 8.8 / 11 / 12 kW

### THREE-PHASE

- Maximum efficiency 98.6%
- Maximum DC input voltage 1100 V
- Remote firmware upgrade
- Type II SPD for both DC and AC side

### DUAL-MPPT

- Low start-up voltage, wide MPPT voltage
- Smart string level monitoring
- Natural cooling, no fans, low noise

Datasheet	SOFAR 3.3KTLX-G3	SOFAR 4.4KTLX-G3	SOFAR 5.5KTLX-G3	SOFAR 6.6KTLX-G3	SOFAR 8.8KTLX-G3	SOFAR 11KTLX-G3	SOFAR 12KTLX-G3
<b>Input (DC)</b>							
Recommended max. PV input power (Wp)	4500	6000	7500	9000	12000	15000	18000
Max. DC power for single MPPT (W)	4500	6000		7500		7500 / 15000	
Number of MPP trackers	2						
Number of DC inputs	1 / 1					1 / 1	1 / 2
Max. input voltage (V)	1100						
Start-up voltage (V)	160						
Rated input voltage (V)	650						
MPPT operating voltage range (V)	140 – 1000						
Full power MPPT voltage range (V)	160 – 850	190 – 850	240 – 850	290 – 850	380 – 850	420 – 850	460 – 850
Max. input MPPT current (A)	15 / 15						30 / 15
Max. input short circuit current per MPPT (A)	22.5 / 22.5						45 / 22.5
<b>Output (AC)</b>							
Rated power (W)	3000	4000	5000	6000	8000	10000	12000
Max. AC power (VA)	3300	4400	5500	6600	8800	11000	13200
Max. output current (A)	5	6.7	8.3	10	13.3	16.7	20
Rated grid voltage	3 / N / PE, 230 / 400						
Grid voltage range	310 – 480 Vac (according to local standard)						
Rated frequency	50 Hz / 60 Hz						
Grid frequency range	45 – 55 Hz / 55 – 65 Hz (according to local standard)						
Active power adjustable range	0 – 100%						
THDi	< 3%						
Power factor	1 default (adjustable +/-0.8)						
<b>Performance</b>							
Max. efficiency	98.40%				98.50%		
European efficiency	97.50%				98.00%		
<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						
Feed-in limitation function	Yes						
DC switch	Optional						
Input / output SPD	PV: type II standard, AC: type II standard						
<b>Communication</b>							
Standard communication mode	RS485 / WiFi / Bluetooth, optional: Ethernet						
<b>General Data</b>							
Ambient temperature range	-30°C – 60°C						
Self-consumption at night (W)	< 1						
Topology	Transformerless						
Degree of protection	IP65						
Allowable relative humidity range	0 – 100%						
Max. operating altitude	4000 m						
Noise	< 40 dB						
Weight (kg)	17				18		
Cooling	Natural						
Dimension (mm)	430*385*182						
Display	LCD, App via Bluetooth						
Warranty	10 years, optional: up to 20 years						
<b>Standard</b>							
EMC	EN 61000-6-1, EN 61000-6-3, EN 61000-3-2, EN 61000-3-3, EN 61000-3-11, EN 61000-3-12						
Safety standards	IEC 62109-1 / 2, IEC 62116, IEC 61727, IEC 61683, IEC 60068 (1, 2, 14, 30)						
Grid standards	VDE V 0124-100, V 0126-1-1, VDE-AR-N 4105, CEI 0-21 / CEI 0-16, UNE 206 007-1, EN 50549, G98 / G99, EN 50530						



**SOFAR**

# 15K ... 24KTLX-G3

15 / 17 / 20 / 22 / 24 kW

## THREE-PHASE

- Maximum efficiency 98.6%
- Maximum DC input voltage 1100 V
- Type II SPD for both DC and AC side
- 110% long-time overload ability

## DUAL-MPPT

- Low start-up voltage, wide MPPT voltage
- Smart string level monitoring
- Remote firmware upgrade

Datasheet	SOFAR 15KTLX-G3	SOFAR 17KTLX-G3	SOFAR 20KTLX-G3	SOFAR 22KTLX-G3	SOFAR 24KTLX-G3
<b>Input (DC)</b>					
Recommended max. PV input power (Wp)	22500		30000	33000	36000
Max. DC power for single MPPT (W)	15000			16500	18000
Number of MPP trackers	2				
Number of DC inputs	2 / 2				
Max. input voltage (V)	1100				
Start-up voltage (V)	160				
Rated input voltage (V)	650				
MPPT operating voltage range (V)	140 – 1000				
Full power MPPT voltage range (V)	420 – 850	450 – 850	480 – 850	510 – 850	540 – 850
Max. input MPPT current (A)	26 / 26				
Max. input short circuit current per MPPT (A)	36 / 36				
<b>Output (AC)</b>					
Rated power (W)	15000	17000	20000	22000	24000
Max. AC power (VA)	16500	18700	22000	24200	26400
Max. output current (A)	23.9	27.1	31.9	35.1	38.3
Rated grid voltage	3 / N / PE, 230 / 400				
Grid voltage range	310 – 480 Vac (according to local standard)				
Rated frequency	50 Hz / 60 Hz				
Grid frequency range	45 – 55 Hz / 55 – 65 Hz (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%				
European weighted efficiency	98.20%				
<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				
Feed-in limitation function	Yes				
DC switch	Optional				
Input / output SPD	PV: type II standard, AC: type II standard				
<b>Communication</b>					
Standard communication mode	RS485 / WiFi / Bluetooth, optional: Ethernet				
<b>General Data</b>					
Ambient temperature range	-30°C – 60°C				
Self-consumption at night (W)	< 1				
Topology	Transformerless				
Degree of protection	IP65				
Allowable relative humidity range	0 – 100%				
Max. operating altitude	4000 m				
Noise	< 40 dB				
Weight (kg)	20	22			23
Cooling	Fan				
Dimension (mm)	520*430*189				
Display	LCD, App via Bluetooth				
Warranty	10 years, optional: up to 20 years				
<b>Standard</b>					
EMC	EN 61000-6-1, EN 61000-6-3, EN 61000-3-11, EN 61000-3-12				
Safety standards	IEC 62109-1 / 2, IEC 62116, IEC 61727, IEC 61683, IEC 60068 (1, 2, 14, 30)				
Grid standards	VDE V 0124-100, V 0126-1-1, VDE-AR-N 4105, CEI 0-21 / CEI 0-16, UNE 206 007-1, EN 50549, G98 / G99, EN 50530				



**SOFAR**

## 25K ... 50KTLX-G3

25 / 30 / 33 / 36 / 40 / 45 / 50 kW

### THREE-PHASE

- Up to 4 MPPTs with DC overload capability (up to 150%)
- Type II SPD for both DC and AC side
- Low start-up voltage, wide MPPT voltage range
- I-V curve scanning function

### THREE TO FOUR MPPTS

- Max. efficiency up to 98.90%
- Prolonged AC overload capability (110%)
- Compatible with 500 W+ modules
- Intelligent monitoring, remote operation

Datasheet	SOFAR 25KTLX-G3	SOFAR 30KTLX-G3	SOFAR 33KTLX-G3	SOFAR 36KTLX-G3	SOFAR 40KTLX-G3	SOFAR 45KTLX-G3	SOFAR 50KTLX-G3
<b>Input (DC)</b>							
Recommended max. PV input power (Wp)	37500	45000	49500	54000	60000	67500	75000
Max. DC power for single MPPT (W)	25000						
Number of MPP trackers	3					4	
Number of DC inputs	2 for each MPPT						
Max. input voltage (V)	1100						
Start-up voltage (V)	200						
Rated input voltage (V)	620						
MPPT operating voltage range (V)	180 – 1000						
Full power MPPT voltage range (V)	480 – 850		510 – 850	540 – 850	480 – 850	510 – 850	540 – 850
Max. input MPPT current (A)	3*40				4*40		
Max. input short circuit current per MPPT (A)	3*50				4*50		
<b>Output (AC)</b>							
Rated power (W)	25000	30000	33000	36000	40000	45000	50000
Max. AC power (VA)	28000	34000	37000	40000	44000	50000	55000
Max. output current (A)	42.4	51.5	56.0	60.6	66.7	75.8	83.3
Rated grid voltage	3 / N / PE, 230 / 400						
Grid voltage range	310 – 480 Vac (according to local standard)						
Rated frequency	50 Hz / 60 Hz						
Grid frequency range	45 – 55 Hz / 55 – 65 Hz (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%				98.80%		
European weighted efficiency	98.20%						
<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						
Feed-in limitation function	Yes						
DC switch	Optional						
Input / output SPD	PV: type II standard, AC: type II standard						
<b>Communication</b>							
Standard communication mode	RS485 / WiFi / Bluetooth, optional: Ethernet						
<b>General Data</b>							
Ambient temperature range	-30°C – 60°C						
Self-consumption at night (W)	<3						
Topology	Transformerless						
Degree of protection	IP65						
Allowable relative humidity range	0 – 100%						
Max. operating altitude	4000 m						
Noise	< 60 dB						
Weight (kg)	36				37		
Cooling	Fan						
Dimension (mm)	585*480*220						
Display	LCD, App via Bluetooth						
Warranty	10 years, optional: up to 20 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 V 0124-100, V 0126-1-1, VDE-AR-N 4105, CEI 0-21/CEI 0-16, UNE 206 007-1, EN 50549, G98/G99, EN 50530						