



# SOLAX INVERTER

2018 Product Brochure  
For Australia


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# X1 MINI

	X1-0.7	X1-1.1	X1-1.5	X1-2.0
<b>INPUT (DC)</b>				
Max.recommended DC power [W]	840	1250	1650	2200
Max. input DC voltage [V]	400	400	400	400
Max. input current [A]	10	10	10	10
MPPT voltage range [V]	50-500	55-380	55-380	55-380
Start input/output voltage [V]	70	70	70	70
Number of MPP tracker/strings per MPP tracker	1/1	1/1	1/1	1/1
<b>OUTPUT (AC)</b>				
AC nominal power [VA]	700	1100	1500	2000
Max. AC power [VA]	700	1100	1500	2000
Normal AC voltage; range [V]	220/230/240; 180~280			
AC grid frequency; range [Hz]	50/60; ±5			
Max. AC current [A]	3.5	5.5	7.5	9.5
Power factor (full load)	0.8 leading ~ 0.8 lagging			
Total harmonic distortion(THD) [%]	<1.5			
<b>POWER CONSUMPTION</b>				
Standby consumption [W]	<5			
<b>EFFICIENCY</b>				
MPPT efficiency[%]	99.9			
Euro efficiency[%]	95	95.5	96	96.5
Max. efficiency[%]	97.1			
<b>SAFETY &amp; PROTECTION</b>				
Over voltage protection	YES			
Over current protection	YES			
DC isolation impedance monitoring	YES			
Ground fault current monitoring	YES			
DC injection monitoring	YES			
RCD protection	YES			
Safety	EN62109-1/-2			
EMC	EN61000-6-2;EN61000-6-3;EN61000-3-2;EN61000-3-3			
Certification	G83/2;AS4777.2-2015;VDE4105; EN50438;CQC;CEI0-21			
<b>ENVIRONMENT LIMITS</b>				
Protection class	IP65			
Operating temperature[°C]	-20~+60(derating at 45)			
Humidity[%]	0~95 (no condensation)			
Attitude[m]	2000			
Storage temperature[°C]	-20~+60			
Noise emission[dB]	<25			
<b>DIMENSION &amp; WEIGHT</b>				
Dimensions(W*H*D) [mm]	248*350*124			
Weight[Kg]	7			
<b>GENERAL DATA</b>				
Topology	Transformerless			
Communication interface	RS485/WIFI(optional)/DRM/USB			
Display	6 LED			
Standard warranty[years]	5-10			
Cooling type	Natural			



# X1 AIR

X1-2.5

X1-3.0

X1-3.3

INPUT (DC)			
Max.recommended DC power [W]	2700	3200	3450
Max. input DC voltage [V]	600	600	600
Max. input current [A]	10	10	10
MPPT voltage range [V]	100-580	100-580	100-580
Start input/output voltage [V]	120	120	120
Number of MPP tracker/strings per MPP tracker	1/1	1/1	1/1
OUTPUT (AC)			
AC nominal power [VA]	2500	3000	3300
Max. AC power [VA]	2500	3000	3300
Normal AC voltage; range [V]	220/230/240; 180~280		
AC grid frequency; range [Hz]	50/60; ±5		
Max. AC current [A]	12	14	15
Power factor (full load)	0.8 leading ~ 0.8 lagging		
Total harmonic distortion(THD) [%]	<2		
POWER CONSUMPTION			
Standby consumption [W]	<10		
EFFICIENCY			
MPPT efficiency[%]	99.9		
Euro efficiency[%]	96.8		
Max. efficiency[%]	97.6		
SAFETY & PROTECTION			
Over voltage protection	YES		
Over current protection	YES		
DC isolation impedance monitoring	YES		
Ground fault current monitoring	YES		
DC injection monitoring	YES		
RCD protection	YES		
Safety	EN62109-1/-2		
EMC	EN61000-6-2;EN61000-6-3;EN61000-3-2;EN61000-3-3		
Certification	G83/2;AS4777.2-2015;VDE4105; EN50438; CQC		
ENVIRONMENT LIMITS			
Protection class	IP65		
Operating temperature[°C]	-20~+60(derating at 45)		
Humidity[%]	0~95 (no condensation)		
Attitude[m]	2000		
Storage temperature[°C]	-20~60		
Noise emission[dB]	<30		
DIMENSION & WEIGHT			
Dimensions(W*H*D) [mm]	323*402*119		
Weight[Kg]	9.5		
GENERAL DATA			
Topology	Transformerless		
Communication interface	RS485/WIFI(optional)/DRM/USB		
Display	11 LED		
Standard warranty[years]	5-10		
Cooling type	Natural		



# X1 BOOST

	X1-3.0T	X1-3.3T	X1-3.6T	X1-4.2T	X1-4.6T	X1-5.0T
<b>INPUT (DC)</b>						
Max.recommended DC power [W]	3250	3500	4000	4600	5200	5200
Max. input DC voltage [V]	600	600	600	600	600	600
Max. input current [A]	12/12	12/12	12/12	12/12	12/12	12/12
MPPT voltage range [V]	125-580	125-580	125-580	125-580	125-580	125-580
Start input/output voltage [V]	150	150	150	150	150	150
Number of MPP tracker/strings per MPP tracker	2/1	2/1	2/1	2/1	2/1	2/1
<b>OUTPUT (AC)</b>						
AC nominal power [VA]	3000	3300	3680	4200	4600	4600
Max. AC power [VA]	3000	3300	3680	4200	4600	4600
Normal AC voltage; range [V]	220/230/240; 180~280					
AC grid frequency; range [Hz]	50/60; ±5					
Max. AC current [A]	14	15	16	19	21	21
Power factor (full load)	0.8 leading ~ 0.8 lagging					
Total harmonic distortion(THD) [%]	<2					
<b>POWER CONSUMPTION</b>						
Standby power[W]	<10					
<b>EFFICIENCY</b>						
MPPT efficiency[%]	99.9					
Euro efficiency[%]	97.0					
Max. efficiency[%]	97.8					
<b>SAFETY &amp; PROTECTION</b>						
Over voltage protection	YES					
Over current protection	YES					
DC isolation impedance monitoring	YES					
Ground fault current monitoring	YES					
DC injection monitoring	YES					
RCD protection	YES					
Safety	IEC62109-1/-2					
EMC	EN 61000-6-1 / EN 61000-6-2 / EN 61000-6-3					
Certification	G83/2;G59/3;AS4777.2-2015;VDE4105; EN50438;CQC;VDE0126					
<b>ENVIRONMENT LIMITS</b>						
Protection class	IP65					
Operating temperature[°C]	-20~+60(derating at 45)					
Humidity[%]	0~95 (no condensation)					
Attitude[m]	2000					
Storage temperature[°C]	-20~+60					
Noise emission[dB]	<25					
<b>DIMENSION &amp; WEIGHT</b>						
Dimensions(W*H*D) [mm]	339*420*143					
Weight[Kg]	14.6	14.6	14.6	16.7	16.7	16.7
<b>GENERAL DATA</b>						
Topology	Transformerless					
Communication interface	RS485/WIFI(optional)/DRM/USB/RF(optional)/Meter(optional)					
Display	Backlight 16*4 character					
Standard warranty[years]	5					
Cooling type	Natural					





X3

ZDNY-TL10000

ZDNY-TL12000

ZDNY-TL15000

ZDNY-TL17000

ZDNY-TL20000

INPUT (DC)	ZDNY-TL10000	ZDNY-TL12000	ZDNY-TL15000	ZDNY-TL17000	ZDNY-TL20000
Max.recommended DC power [W]	10260	12300	15370	17420	20500
Max. input DC voltage [V]	1000				
Max. input current [A]	A:22/B:11	A:22/B:11	A:22/B:22	A:22/B:22	A:22/B:22
MPPT voltage range [V]	320-800	380-800	350-800	400-800	480-800
Start input/output voltage [V]	400				
Number of MPP tracker/strings per MPP tracker	2/A:3 B:1	2/A:3 B:1	2/A:3 B:3	2/A:3 B:3	2/A:3 B:3
OUTPUT (AC)					
AC nominal power [VA]	10000	12000	15000	17000	20000
Max. AC power [VA]	10000	12000	15000	17000	20000
Normal AC voltage; range [V]	3/N/PE 230/400; 160-280				
AC grid frequency; range [Hz]	50; 44-55/60;55-65				
Max. AC current [A]	16	20	24	25	29
Power factor (full load)	0.9 leading ~ 0.9 lagging				
Total harmonic distortion(THD) [%]	<3				
POWER CONSUMPTION					
Standby consumption [W]	<10				
EFFICIENCY					
MPPT efficiency[%]	99.9				
Euro efficiency[%]	97.6				
Max. efficiency[%]	98.2				
SAFETY & PROTECTION					
Over voltage protection	YES				
Over current protection	YES				
DC isolation impedance monitoring	YES(optional)				
Ground fault current monitoring	YES				
DC injection monitoring	YES				
RCD protection	YES				
Safety	IEC62109-1/IEC62109-2/AS3100				
EMC	EN 61000-3-2/EN 61000-3-3/EN 61000-3-11/EN 61000-3-12/EN 61000-6-2/EN 61000-6-3				
Certification	G83;G59;VDE0126;VDE4105;CQC;IEC62172;IEC62116;IEC61683;IEC60068				
ENVIRONMENT LIMITS					
Protection class	IP65 (Fan IP54)				
Operating temperature[°C]	-20~+60 (derating at 45)				
Humidity[%]	0~95 (non-condensing)				
Attitude[m]	2000				
Storage temperature[°C]	-20~60				
Noise emission[dB]	<50				
DIMENSION & WEIGHT					
Dimensions(W*H*D) [mm]	513 x 651.5 x 207				
Weight[Kg]	48	48	50.5	50.5	51
GENERAL DATA					
Topology	Transformerless				
Communication interface	RS485/RS232/WIFI(optional)/DRM				
Display	Backlight 240*160 point LCD				
Standard warranty[years]	5-10				
Cooling type	Forced-cooling				



X3

X3-30T

X3-36T

INPUT (DC)		
Max.recommended DC power [W]	36000	43200
Max. input DC voltage [V]	1000	
Max. input current [A]	A:34/B:34	
MPPT voltage range [V]	280-950	280-950
Start input/output voltage [V]	300	
Number of MPP tracker/strings per MPP tracker	2/A:4 B:4	
OUTPUT (AC)		
AC nominal power [VA]	30000	36000
Max. AC power [VA]	33000	40000
Normal AC voltage; range [V]	3/PE 380, 400;+/-10%; 3/N/PE 380, 400;+/-10%; 3/PE 480;+/-10%; 3/N/PE 480;+/-10%;	
AC grid frequency; range) [Hz]	50;45-55 / 60;55-65	
Max. AC current [A]	48*3	48*3
Power factor (full load)	0.8 leading ~ 0.8 lagging	
Total harmonic distortion(THD) [%]	<3	
POWER CONSUMPTION		
Standby consumption [W]	<7	
EFFICIENCY		
MPPT efficiency[%]	99.9	
Euro efficiency[%]	98.3	
Max. efficiency[%]	98.6	
SAFETY & PROTECTION		
Over voltage protection	YES	
Over current protection	YES	
DC isolation impedance monitoring	YES	
Ground fault current monitoring	YES	
DC injection monitoring	YES	
RCD protection	YES	
Safety	IEC62109-1/IEC62109-2/AS3100	
EMC	EN 61000-3-2/EN 61000-3-3/EN 61000-3-11/EN 61000-3-12/EN 61000-6-2/EN 61000-6-3	
Certification	NB/T 32004-2013/ZVRT/VDE4105/G59/3/AS4777	
ENVIRONMENT LIMITS		
Protection class	IP65	
Operating temperature[°C]	-25~+60 (derating at 45)	
Humidity[%]	0~95	
Attitude[m]	2000	
Storage temperature[°C]	-25~60	
Noise emission[dB]	<60	
DIMENSION & WEIGHT		
Dimensions(W*H*D) [mm]	660*610*260	
Weight[Kg]	60	
GENERAL DATA		
Topology	Transformerless	
Communication interface	RS485/ WIFI (optional)/ Ethernet/ DRM/ USB	
Display	4 LED	
Standard warranty[years]	5-10	
Cooling type	Forced-cooling	



# X1-Hybrid

X-Hybrid Ready Inverter  
(Compatible with BMU)

## SK-TL3000E

## SK-TL3700E

## SK-TL5000E

INPUT (DC)	SK-TL3000E	SK-TL3700E	SK-TL5000E
Max.recommended DC power[W]	3300	4000	5000
Max.DC voltage[V]		550	
Norminal DC operating voltage[V]		360	
Max.input current[A]		12/12	
Max. short circuit current[A]		15/15	
MPPT voltage range[V]		125-530	
No. of MPPT trackers		2	
Strings per MPPT tracker		1	
<b>OUTPUT AC</b>			
Norminal AC power [VA]	3000	3680	4600
Max. AC power [VA]	3300	3680	4999
Rated grid voltage(AC voltage range) [V]		230 (180 to 270)	
Rated grid frequency [Hz]		50/60	
Norminal AC current [A]	13	16	20
Max. AC current [A]	14.4	16	21.7
Displacement power factor		0.8 leading to 0.8 lagging	
Total harmonic distortion(THD, rated power) [%]		<3	
Load control		Yes (optional)	
<b>OUTPUT DC (BATTERY)</b>			
Battery voltage range [V]		40-60	
Recommended battery voltage [V]		48	
Max.charging/discharging power [W]		According to BMU	
Max.charging/discharging current [A]		According to BMU	
Communication interfaces		Can/RS232	
Reverse connect protection		Yes	
<b>EPS OUTPUT (WITH BATTERY)</b>			
EPS rated power [VA]	2000/3000	2000/3680	2000/4000
EPS rated voltage [V], Frequency [Hz]		230, 50/60	
EPS rated current [A]	8.7/13	8.7/16	8.7/17
EPS peak power[W];Duration [s]	1.5xRated, 10	1.5xRated, 10	1.5xRated, 10
Switch time[s]		<5	
Total harmonic distortion(THD, linear load) [%]		<3	
Parallel operation		No	
<b>EFFICIENCY</b>			
MPPT efficiency [%]		99.9	
Euro efficiency [%]		97.0	
Max. efficiency [%]		97.6	
Battery charge/discharge efficiency [%]		94.0	
<b>POWER CONSUMPTION</b>			
Internal consumption(night) [W]		<7	
Idle mode		YES	
<b>STANDARD</b>			
Safety		IEC62109-1; IEC62109-2; IEC62040-1	
EMC		IEC61000-6-1/2/3	
Certification		VDE 4105 / AS/NZS4772 / C10 11 / EN50438-NL / EN50438-DK / OVE/ONORME 8001/ G83,G59 / CEI 0-21	
<b>ENVIRONMENT LIMIT</b>			
Protection class		IP20 (indoor use)	
Operating temperature range [°C]		-10~+50 (derating at 40)	
Altitude[m]		<2000	
Storage temperature[°C]		-20~+60	
Noise emission(typical) [dB]		<40	
Over voltage category		III (electric supply side), II (PV side)	
<b>DIMENSION AND WEIGHT</b>			
Dimensions(WxHxD) [mm]		475*591*151	
Weight[kg]		21.5	
Cooling concept		Forced airflow	
Topology		Transformerless	
Communication		Ethernet / WIFI / Dry Contact	
LCD display		Backlight 16*4 character	
Standard warranty [years]		5	



X-Hybrid Inverter

# X1-Hybrid

## SK-SU3000E

## SK-SU3700E

## SK-SU5000E

INPUT (DC)	SK-SU3000E	SK-SU3700E	SK-SU5000E
Max.recommended DC power[W]	3300	4000	5000
Max.DC voltage[V]		550	
Norminal DC operating voltage[V]		360	
Max.input current[A]	12	12/12	12/12
Max. short circuit current[A]	15	15/15	15/15
MPPT voltage range[V]		125-530	
No. of MPPT trackers	1	2	2
Strings per MPPT tracker	1	1	1
<b>OUTPUT AC</b>			
Norminal AC power [VA]	3000	3680	4600
Max. AC power [VA]	3300	3680	4999
Rated grid voltage(AC voltage range) [V]		230 (180 to 270)	
Rated grid frequency [Hz]		50/60	
Norminal AC current [A]	13	16	20
Max. AC current [A]	14.4	16	21.7
Displacement power factor		0.8 leading to 0.8 lagging	
Total harmonic distortion(THD, rated power) [%]		<3	
Load control		Yes (optional)	
<b>OUTPUT DC (BATTERY)</b>			
Battery voltage range [V]		40-60	
Recommended battery voltage [V]		48	
Max.charging/discharging power [W]	2500	2500	2500
Max.charging/discharging current [A]	25	25	25
Communication interfaces		Can/RS232	
Reverse connect protection		Yes	
<b>EPS OUTPUT (WITH BATTERY)</b>			
EPS rated power [VA]	2000	2000	2000
EPS rated voltage [V], Frequency [Hz]		230,50/60	
EPS rated current [A]	8.7	8.7	8.7
EPS peak power[W];Duration [s]	1.5xRrated, 10	1.5xRrated, 10	1.5xRrated, 10
Switch time[s]		<5	
Total harmonic distortion(THD, linear load) [%]		<3	
Parallel operation		No	
<b>EFFICIENCY</b>			
MPPT efficiency [%]		99.9	
Euro efficiency [%]		97.0	
Max. efficiency [%]		97.6	
Battery charge/discharge efficiency [%]		94.0	
<b>POWER CONSUMPTION</b>			
Internal consumption(night) [W]		<7	
Idle mode		YES	
<b>STANDARD</b>			
Safety		IEC62109-1; IEC62109-2; IEC62040-1	
EMC		IEC61000-6-1/2/3	
Certification	VDE 4105 / AS/NZS4772.2 / C10 11 / EN50438-NL / EN50438-DK / OVE/ONORME 8001/ G83,G59 / CEI 0-21		
<b>ENVIRONMENT LIMIT</b>			
Protection class		IP20 (indoor use)	
Operating temperature range [°C]		-10~+50 (derating at 40)	
Altitude[m]		<2000	
Storage temperature[°C]		-20~+60	
Noise emission(typical) [dB]		<40	
Over voltage category		III (electric supply side), II (PV side)	
<b>DIMENSION AND WEIGHT</b>			
Dimensions(WxHxD) [mm]		700*591*151	
Weight[kg]		27.7	
Cooling concept		Forced airflow	
Topology		Transformerless	
Communication		Ethernet / WIFI / Dry Contact	
LCD display		Backlight 16*4 character	
Standard warranty [years]		5	





# X1-Hybrid HV

(SINGLE PHASE)

X1-HYBRID-3.0T

X1-HYBRID-3.7T

X1-HYBRID-4.6T

X1-HYBRID-5.0T

INPUT (DC)	X1-HYBRID-3.0T	X1-HYBRID-3.7T	X1-HYBRID-4.6T	X1-HYBRID-5.0T
Max.recommended DC power[W]	4000	5000	6000	6000
Max.DC voltage[V]	600	600	600	600
Norminal DC operating voltage[V]	360	360	360	360
Max.input current[A]	10/10	10/10	10/10	10/10
Max. short circuit current[A]	14/14	14/14	14/14	14/14
MPPT voltage range[V]	125-550	125-550	125-550	125-550
No. of MPP trackers	2	2	2	2
Strings per MPP tracker	1	1	1	1
<b>OUTPUT AC</b>				
Norminal AC power [VA]	3000	3680	4600	4999
Max. AC power [VA]	3000	3680	4600	4999
Rated grid voltage(AC voltage range) [V]	230(180 to 270)	230(180 to 270)	230(180 to 270)	230(180 to 270)
Rated grid frequency [Hz]	50/60	50/60	50/60	50/60
Norminal AC current [A]	13	16	20	21.7
Max. AC current [A]	14.4	16	21	21.7
Displacement power factor	0.8 leading ... 0.8 lagging			
Total harmonic distortion(THD, rated power) [%]	<2			
Load control	Yes (optional)			
<b>OUTPUT DC (BATTERY)</b>				
Battery voltage range [V]	85-400			
Recommended battery voltage [V]	300			
Max.charging/discharging power [W]	6000			
Max.charging/discharging current [A]	20			
Communication interfaces	CAN/RS485			
Reverse connect protection	Yes			
<b>EPS OUTPUT (WITH BATTERY)</b>				
EPS rated power [VA]	4000	4000	5000	5000
EPS rated voltage [V], Frequency [Hz]	230, 50/60	230, 50/60	230, 50/60	230, 50/60
EPS rated current [A]	17.4	17.4	21.7	21.7
EPS peak power[W];Duration [s]	10000,10	10000,10	10000,10	10000,10
Switch time[s]	<0.5			
Total harmonic distortion(THD, linear load) [%]	<2			
Parallel operation	Being developed			
<b>EFFICIENCY</b>				
MPPT efficiency [%]	99.9			
Euro efficiency [%]	97.0			
Max. efficiency [%]	97.8			
Battery charge/discharge efficiency [%]	96.5 (PV-BAT) 97.0(BAT-AC)			
<b>POWER CONSUMPTION</b>				
Internal consumption(night) [W]	<7			
Idle mode	YES			
<b>STANDARD</b>				
Safety	IEC62109-1-2 / IEC62040			
EMC	EN61000-6-1/EN61000-6-2/EN61000-6-3			
Certification	VDE0126-1-1 A1:2012/VDE-AR-N4105/G83/G59/AS4777/EN50438/CEI0-21/VDE2510			
<b>ENVIRONMENT LIMIT</b>				
Protection class	IP65			
Operating temperature range [°C]	-20~+60 (derating at+45)			
Altitude[m]	<2000			
Storage temperature[°C]	-20~+60			
Noise emission(typical) [dB]	<30			
Over voltage category	III (electric supply side), II (PV side)			
<b>DIMENSION AND WEIGHT</b>				
Dimensions(WxHxD) [mm]	460*477*181.5			
Weight[kg]	26.9			
Cooling concept	Natural			
Topology	Transformerless			
Communication	Ethernet/Meter/WIFI (optional)/RF(optional)/DRM/USB/ISO alarm/Parallel operation			
LCD display	Backlight 20*4 character			
Standard warranty [years]	5			



# X3-Hybrid HV

(THREE PHASE)

X3-HYBRID-5.0T

X3-HYBRID-6.0T

X3-HYBRID-8.0T

X3-HYBRID-10.0T

	X3-HYBRID-5.0T	X3-HYBRID-6.0T	X3-HYBRID-8.0T	X3-HYBRID-10.0T
<b>INPUT (DC)</b>				
Max.recommended DC power[W]	6000	8000	10000	13000
Max.DC voltage[V]	1000	1000	1000	1000
Norminal DC operating voltage[V]	720	720	720	720
Max.input current[A]	11/11	11/11	11/11	20/11
Max. short circuit current[A]	14/14	14/14	14/14	23/14
MPPT voltage range[V]	230-800	280-800	370-800	330-800
No. of MPP trackers	2	2	2	2
Strings per MPP tracker	1	1	1	2/1
<b>OUTPUT AC</b>				
Norminal AC power [VA]	5000	6000	8000	10000
Max. AC power [VA]	5000	6000	8000	10000
Rated grid voltage(AC voltage range) [V]	400(360 to 440)	400(360 to 440)	400(360 to 440)	400(360 to 440)
Rated grid frequency [Hz]	50/60	50/60	50/60	50/60
Norminal AC current [A]	7.6	9	12.2	15
Max. AC current [A]	8.5	10	13.5	16
Displacement power factor	0.8 leading ... 0.8 lagging			
Total harmonic distortion(THD, rated power) [%]	<2			
Load control	Yes (optional)			
<b>OUTPUT DC (BATTERY)</b>				
Battery voltage range [V]	170-500			
Recommended battery voltage [V]	200	240	320	400
Max.charging/discharging power [W]	6000	8000	10000	10000
Max.charging/discharging current [A]	25			
Communication interfaces	CAN/RS485			
Reverse connect protection	Yes			
<b>EPS OUTPUT (WITH BATTERY)</b>				
EPS rated power [VA]	5000	6000	8000	10000
EPS rated voltage [V], Frequency [Hz]	400/380, 50/60	400/230, 50/60	400/230, 50/60	400/230, 50/60
EPS rated current [A]	7.2	8.7	11.6	14.5
EPS peak power[W];Duration [s]	7500,60	9000,60	12000,60	14000,60
Switch time[s]	<0.5			
Total harmonic distortion(THD, linear load) [%]	<2			
Parallel operation	Being developed			
<b>EFFICIENCY</b>				
MPPT efficiency [%]	99.9			
Euro efficiency [%]	97.0			
Max. efficiency [%]	97.6			
Battery charge/discharge efficiency [%]	97.6(PV-BAT) 96.0(BAT-AC)			
<b>POWER CONSUMPTION</b>				
Internal consumption(night) [W]	<7			
Idle mode	YES			
<b>STANDARD</b>				
Safety	IEC62109-1-2 / IEC62040			
EMC	EN61000-6-1/EN61000-6-2/EN61000-6-3			
Certification	VDE0126-1-1 A1:2012/VDE-AR-N4105/G59-3/AS4777/EN50438/CEI 0-21/IEC62040/IEC62619/ISO13849-2/SN29500/IEC615086			
<b>ENVIRONMENT LIMIT</b>				
Protection class	IP65			
Operating temperature range [°C]	-25~+60 (derating at+45)			
Altitude[m]	<2000			
Storage temperature[°C]	-20~+60			
Noise emission(typical) [dB]	<30			
Over voltage category	III (electric supply side), II (PV side)			
<b>DIMENSION AND WEIGHT</b>				
Dimensions(WxHxD) [mm]	655*456*208			
Weight[kg]	40			
Cooling concept	Natural			
Topology	Transformerless			
Communication	Ethernet/Meter/WIFI (optional)/RF(optional)/DRM/USB/Parallel operation			
LCD display	Backlight 20*4 character			
Standard warranty [years]	5			



# SOLAXBOX LV

## Inverter + Battery

### SK-TL5000R+2.5KW

### SK-TL5000R+5KW

INPUT (DC)		
Max.recommended DC power[W]	5000	5000
Max.DC voltage[V]	550	550
Norminal DC operating voltage[V]	360	360
Max.input current[A]	12/12	12/12
Max. short circuit current[A]	15/15	15/15
MPPT voltage range[V]	125-530	125-530
No. of MPP trackers	2	2
Strings per MPP tracker	1	1
OUTPUT AC		
Norminal AC power [VA]	4600	4600
Max. AC power [VA]	4999	4999
Rated grid voltage(AC voltage range) [V]	230 (180 to 270)	
Rated grid frequency [Hz]	50/60	
Norminal AC current [A]	20	20
Max. AC current [A]	21.7	21.7
Displacement power factor	0.80 leading...0.80 lagging	
Total harmonic distortion(THD, rated power) [%]	<3	
Load control	No	
OUTPUT DC (BATTERY)		
Battery voltage range [V]	40-60	
Recommended battery voltage [V]	48	
Max.charging/discharging power [W]	2500	5000
Max.charging/discharging current [A]	50	100
Communication interfaces	CAN/RS232	
Reverse connect protection	Yes	
EPS OUTPUT (WITH BATTERY)		
EPS rated power [VA]	2000	4000
EPS rated voltage [V], Frequency [Hz]	230; 50/60	230; 50/60
EPS rated current [A]	8.7	17.3
EPS peak power[W];Duration [s]	1.5xPrated, 10	1.5xPrated, 10
Switch time[s]	<5	<5
Total harmonic distortion(THD, linear load) [%]	<3	<3
Parallel operation	No	No
EFFICIENCY		
MPPT efficiency [%]	99.9	
Euro efficiency [%]	97.0	
Max. efficiency [%]	97.6	
Battery charge/discharge efficiency [%]	94.0	
POWER CONSUMPTION		
Internal consumption(night) [W]	<7	
Idle mode	YES	
STANDARD		
Safety	IEC62109-1; IEC62109-2; IEC62040-1	
EMC	EN 61000-6-1; EN 61000-6-2; EN 61000-6-3	
Certification	VDE 4105 / AS/NZS4772 / C10 11 / EN50438-NL / EN50438-DK / OVE/ONORME 8001/ G83,G59 / CEI 0-21	
ENVIRONMENT LIMIT		
Protection class	IP20 (for indoor use)	
Operating temperature range [°C]	Inverter: -10~+50 (derating at 40); Battery: -10~+50	
Altitude[m]	<2000	
Storage temperature[°C]	-20~+60	
Noise emission(typical) [dB]	<40	
Over voltage category	III (electric supply side), II (PV side)	
DIMENSION AND WEIGHT		
Dimensions(WxHxD) [mm]	600*1205*675	
Weight[kg]	180	
Cooling concept	Forced airflow	
Topology	Transformerless	
Communication	Ethernet / Dry contact(optional) / WIFI / Meter	
LCD display	7" touchscreen	
Standard warranty [years]	5	