



SOLAX INVERTER

2017 Product Brochure

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X1 MINI

X1-1.1

X1-1.5

X1-2.0

INPUT (DC)			
Max.recommended DC power [W]	1250	1650	2200
Max. input DC voltage [V]	400	400	400
Max. input current [A]	10	10	10
MPPT voltage range [V]	55-380	55-380	55-380
Start input/output voltage [V]	60/70	60/70	60/70
Number of MPP tracker/strings per MPP tracker	1/1	1/1	1/1
OUTPUT (AC)			
AC nominal power [VA]	1100	1500	2000
Max. AC power [VA]	1100	1500	2000
Norminal AC voltage; range [V]	220/230/240; 180~280		
AC grid frequency; range) [Hz]	50/60; ±5		
Max. AC current [A]	5.5	7.5	9.5
Power factor (full load)	0.8 leading ~ 0.8 lagging		
Total harmonic distortion(THD) [%]	<2		
POWER CONSUMPTION			
Standby consumption [W]	<5		
EFFICIENCY			
MPPT efficiency[%]	99.9		
Euro efficiency[%]	95.5	96	96.5
Max. efficiency[%]	97.1		
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;CEI0-21		
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]	<25		
DIMENSION & WEIGHT			
Dimensions(W*H*D) [mm]	248*350*124		
Weight[Kg]	7		
GENERAL DATA			
Topology	Transformerless		
Communication interface	RS485/WIFI(optional)/DRM/USB		
Display	6 LED		
Standard warranty[years]	5-10		
Cooling type	Natural		

*Can be modified without notice.(V2)



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]	65/120	65/120	65/120
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
Norminal 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		

*Can be modified without notice.(V2)



X1 BOOST

	X1-3.0T	X1-3.3T	X1-3.6T	X1-4.2T	X1-5.0T
INPUT (DC)					
Max.recommended DC power [W]	3250	3500	4000	4600	5200
Max. input DC voltage [V]	600	600	600	600	600
Max. input current [A]	12/12	12/12	12/12	12/12	12/12
MPPT voltage range [V]	125-580	125-580	125-580	125-580	125-580
Start input/output voltage [V]	110/150	110/150	110/150	110/150	110/150
Number of MPP tracker/strings per MPP tracker	2/1	2/1	2/1	2/1	2/1
OUTPUT (AC)					
AC nominal power [VA]	3000	3300	3680	4200	4600
Max. AC power [VA]	3000	3300	3680	4200	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
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[%]	97.0				
Max. efficiency[%]	97.8				
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/-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				
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]	<25				
DIMENSION & WEIGHT					
Dimensions(W*H*D) [mm]	339*420*143				
Weight[Kg]	14.6	14.6	14.6	16.7	16.7
GENERAL DATA					
Topology	Transformerless				
Communication interface	RS485/WIFI(optional)/DRM/USB/RF(optional)/Meter(optional)				
Display	Backlight 16*4 character				
Standard warranty[years]	5-10				
Cooling type	Natural				

*Can be modified without notice.(V2)



X3

ZDNY-TL10000

ZDNY-TL12000

ZDNY-TL15000

ZDNY-TL17000

ZDNY-TL20000

INPUT (DC)					
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]	220/400				
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
Norminal 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				
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				

*Can be modified without notice.(V2)



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	

*Can be modified without notice.(V2)



X1-Hybrid

X-Hybrid Ready Inverter
(Compatible with BMU)

SK-TL3000E

SK-TL3700E

SK-TL5000E

INPUT (DC)			
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 MPP trackers		2	
Strings per MPP tracker		1	
OUTPUT AC			
Normal 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	
Normal 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)	
OUTPUT DC (BATTERY)			
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	
EPS OUTPUT (WITH BATTERY)			
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	
EFFICIENCY			
MPPT efficiency [%]		99.9	
Euro efficiency [%]		97.0	
Max. efficiency [%]		97.6	
Battery charge/discharge efficiency [%]		94.0	
POWER CONSUMPTION			
Standby consumption [W]		<7	
Idle mode		YES	
STANDARD			
Safety	IEC62109-1; IEC62109-2; IEC62040-1		
EMC	IEC61000-6-1/2/3		
Certification	VDE 4105 / AS/NZS4777.2 / C10 11 / EN50438-NL / EN50438-DK / OVE/ONORME 8001/ G83,G59 / CEI 0-21		
ENVIRONMENT LIMIT			
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)		
DIMENSION AND WEIGHT			
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]	5-10		

*Can be modified without notice.(V2)



X-Hybrid Inverter

X1-Hybrid

SK-SU3000E		SK-SU3700E		SK-SU5000E	
INPUT (DC)					
Max.recommended DC power[W]	3300	4000	5000		
Max.DC voltage[V]		550			
Normalal 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 MPP trackers	2	2	2		
Strings per MPP tracker	1	1	1		
OUTPUT AC					
Normalal 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			
Normalal 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)			
OUTPUT DC (BATTERY)					
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			
EPS OUTPUT (WITH BATTERY)					
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]	1.5xRated, 10	1.5xRated, 10	1.5xRated, 10		
Switch time[s]		<5			
Total harmonic distortion(THD, linear load) [%]		<3			
Parallel operation		No			
EFFICIENCY					
MPPT efficiency [%]		99.9			
Euro efficiency [%]		97.0			
Max. efficiency [%]		97.6			
Battery charge/discharge efficiency [%]		94.0			
POWER CONSUMPTION					
Standby consumption [W]		<7			
Idle mode		YES			
STANDARD					
Safety	IEC62109-1; IEC62109-2; IEC62040-1				
EMC	IEC61000-6-1/2/3				
Certification	VDE 4105 / AS/NZS4777	.2 / C10 11 / EN50438-	NL / EN50438-	DK / OVE/ONORME 8001	/ G83 ,G59 / CEI 0-21
ENVIRONMENT LIMIT					
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)				
DIMENSION AND WEIGHT					
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]	5-10				

*Can be modified without notice.(V2)



X1-Hybrid HV

(SINGLE PHASE)

X1-HYBRID-3.0T

X1-HYBRID-3.7T

X1-HYBRID-4.6T

X1-HYBRID-5.0T

INPUT (DC)				
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
OUTPUT AC				
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)			
OUTPUT DC (BATTERY)				
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			
EPS OUTPUT (WITH BATTERY)				
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]	8000,10	8000,10	8000,10	8000,10
Switch time[s]	<0.5			
Total harmonic distortion(THD, linear load) [%]	<2			
Parallel operation	Yes			
EFFICIENCY				
MPPT efficiency [%]	99.9			
Euro efficiency [%]	97.0			
Max. efficiency [%]	97.8			
Battery charge/discharge efficiency [%]	98.5			
POWER CONSUMPTION				
Standby consumption [W]	<7			
Idle mode	YES			
STANDARD				
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			
ENVIRONMENT LIMIT				
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)			
DIMENSION AND WEIGHT				
Dimensions(WxHxD) [mm]	460*477*181.5			
Weight[kg]	26.9			
Cooling concept	Forced-cooling			
Topology	Transformerless			
Communication	Ethernet/Meter/WIFI (optional)/RF(optional)/DRM/USB/ISO alarm/Parallel operation			
LCD display	Backlight 20*4 character			
Standard warranty [years]	5-10			

*Can be modified without notice. (V2)



X3-Hybrid HV

(THREE PHASE)

X3-HYBRID-5.0T

X3-HYBRID-6.0T

X3-HYBRID-8.0T

X3-HYBRID-10.0T

INPUT (DC)				
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
OUTPUT AC				
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)			
OUTPUT DC (BATTERY)				
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	No			
EPS OUTPUT (WITH BATTERY)				
EPS rated power [VA]	5000	6000	8000	10000
EPS rated voltage [V], Frequency [Hz]	400/380, 50/60	400/380, 50/60	400/380, 50/60	400/380, 50/60
EPS rated current [A]	7.6	9	12.2	15
EPS peak power[W];Duration [s]	10000,60	12000,60	16000,60	16000,60
Switch time[s]	<0.5			
Total harmonic distortion(THD, linear load) [%]	<2			
Parallel operation	Yes			
EFFICIENCY				
MPPT efficiency [%]	99.9			
Euro efficiency [%]	97.0			
Max. efficiency [%]	97.6			
Battery charge/discharge efficiency [%]	96.0			
POWER CONSUMPTION				
Standby consumption [W]	<7			
Idle mode	YES			
STANDARD				
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/IEC62619/ISO13849-2/SN29500/IEC615086			
ENVIRONMENT LIMIT				
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)			
DIMENSION AND WEIGHT				
Dimensions(WxHxD) [mm]	655*456*208			
Weight[kg]	40			
Cooling concept	Forced-cooling			
Topology	Transformerless			
Communication	Ethernet/Meter/WIFI (optional)/RF(optional)/DRM/USB/Parallel operation			
LCD display	Backlight 20*4 character			
Standard warranty [years]	5-10			

*Can be modified without notice. (V2)



SOLAXBOX LV

Inverter + Battery

3K+2.5K

3.7K+2.5K

5K+2.5K

5K+5K

INPUT (DC)				
Max.recommended DC power[W]	3300	4000	5000	5000
Max.DC voltage[V]	550	550	550	550
Norminal DC operating voltage[V]	360	360	360	360
Max.input current[A]	12	12/12	12/12	12/12
Max. short circuit current[A]	15	15/15	15/15	15/15
MPPT voltage range[V]	125-530	125-530	125-530	125-530
No. of MPP trackers	1	2	2	2
Strings per MPP tracker	1	1	1	1
OUTPUT AC				
Normal AC power [VA]	3000	3680	4600	4600
Max. AC power [VA]	3300	3680	4999	4999
Rated grid voltage(AC voltage range) [V]	230 (180 to 270)			
Rated grid frequency [Hz]	50/60			
Normal AC current [A]	13	16	20	20
Max. AC current [A]	14.4	16	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	2500	2500	5000
Max.charging/discharging current [A]	50	50	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				
Standby consumption [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/NZS4777.2 / 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); Bettery: -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]	5-10			

*Can be modified without notice.(V2)