




SOLAX INVERTER

2017 Product Brochure

GET IN TOUCH:


Global: +86 571-56260008

AU: +61 1300 476529

 www.solaxpower.com

DE: +49 7231 4180999

UK: +44 2476 586998

 info@solaxpower.com





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 |
| Normal 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) | X1-2.5 | X1-3.0 | X1-3.3 |
|---|---------|---|---------|
| 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 |
| 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 | |

*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 |
| 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 | | | | |
| 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) | 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 | |
| OUTPUT AC | | | |
| 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) | |
| 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/NZS4772.2 / 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 | |
| Normal 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 | | | |
| 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] | 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) | 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 |
| 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

| | 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

| | 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 | | | | |
| Norminal 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 | | | |
| Norminal 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); 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] | 5-10 | | | |

*Can be modified without notice.(V2)