

Solar
Optimal
Long Life-cycle
Accurate
Xtraordinary



*Can be modified without notice.(V2.1)

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ABOUT THE COMPANY

SolaX Power Network Technology (Zhejiang) Co., Ltd. was founded in 2012 and is committed to the field of smart energy microgrid, owning core products including PV on-grid inverters, energy storage inverters, energy storage batteries, PV energy storage systems, and more. To date, SolaX offers the most diversified product line globally and has the widest application coverage. SolaX is the global leader in the field of smart PV energy storage systems.

SolaX is a hi-tech enterprise that integrates R&D, production, sales and service as one, and is dedicated to providing grid-tied inverters, storage inverters, solar battery storage and smart PV energy storage systems.

SolaX has been authorized 98 national patents since its establishment, including more than 34 invention patents. SolaX inverters have been granted more than 500 international authorized certifications until now. At present, SolaX sells its products to more than 80 countries.

SolaX's products have passed the German VDE certification, Italian CEI certification, European Union EN certification, Australian SAA certification, American UL certification and other mainstream market certifications. SolaX is also the first Chinese manufacturer to obtain the Japanese S-Mark certificate for its residential energy storage system, which demonstrated the excellent performance and stable reliability of SolaX residential energy storage system.

In 2013, SolaX successfully launched Asian first X-Hybrid energy storage inverter, and now it's the 4th generation. SolaX is truly a leader in solar and energy storage industry.




2012
ESTABLISHED

2013
THE FIRST HYBRID
INVERTER

80+
EXPORTING
COUNTRIES

500+
CERTIFICATIONS

30+
INVENTION PATENTS

HANGZHOU
Focus on inverters and storage battery

SHENZHEN
Focus on North America Standard inverters

SUZHOU
Focus on utility scale inverter



INVESTORS

Main Shareholders & Investors



SPIC

State Power Investment Corporation

- One of the five major power & electricity companies in China
- Total assets of 1,500 billion RMB (2021)



CTGC

China Three Gorges Corporation

- The largest hydroelectric power plant in the world
- One of the world's largest energy companies
- Total assets of 1,150 billion RMB (2021)



FOCUS POINT

The SolaX vision is to be a world leader in the development, production and distribution of solar inverters and batteries for energy storage. The product range incorporates the very latest in solar innovation thanks to the continued focus on R&D and unceasing commitment to pushing back the boundaries of what is possible – a journey that has led to the launch of the ground-breaking Hybrid inverters and batteries storage system.

2022



2021



WORK
TIMELINE

2011

- First inverter delivered

2012

- SolaX Power Set up

2013

- Asian first energy storage inverter
- New office in the UK

2014

- New subsidiary in Australia
- China Innovation and Competition New Energy Industry Enterprise Group Third Place Award

2015

- ZDNY-TL 17000 PHOTON A award

2016

- New subsidiary in the Netherlands
- SolaX Featured On BBC Royal Institution Lectures

2017

- SolaX New R&D center accomplishment



2018

- Awarded Zhejiang High-tech Enterprise Research and Development Center
- New subsidiary in the USA

2019

- New subsidiary in Germany

2020

- J1ESS-HB58 awarded first Japan S-Mark certification
- TÜV Rheinland Witness Lab Qualification

2021

- TÜV Rheinland Quality Award
- X-ESS G4 reddot winner
- New subsidiary in Japan

2022

- Service setup in Brazil & South Africa
- EUPD TOP BRAND



WHERE WE WORK



ONE STOP SOLUTION

All products are solely-developed and self-manufactured by SolaX, including hybrid inverters, storage batteries, BMS.

From manufacturing to after-sales support, you can trust us for high-quality products and services.

GLOBAL SERVICE SUPPORT

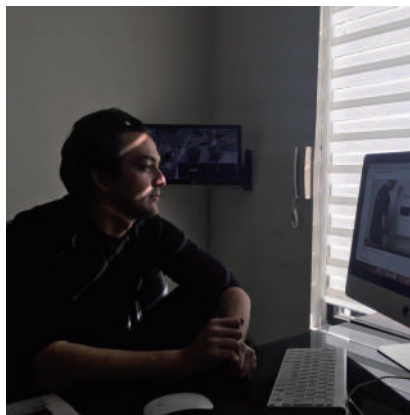
Training Support

Dedicated technical experts provide professional trainings to

- Our Customers
- SolaX Power's Service staff
- Our global Service Providers

Webinar online training

On-Site training



After Sales Service Support

Hotline Support

- Assistance and technical support via phone or Email

Local Technical Support

- Local support engineers (AU, EU, UK, US)

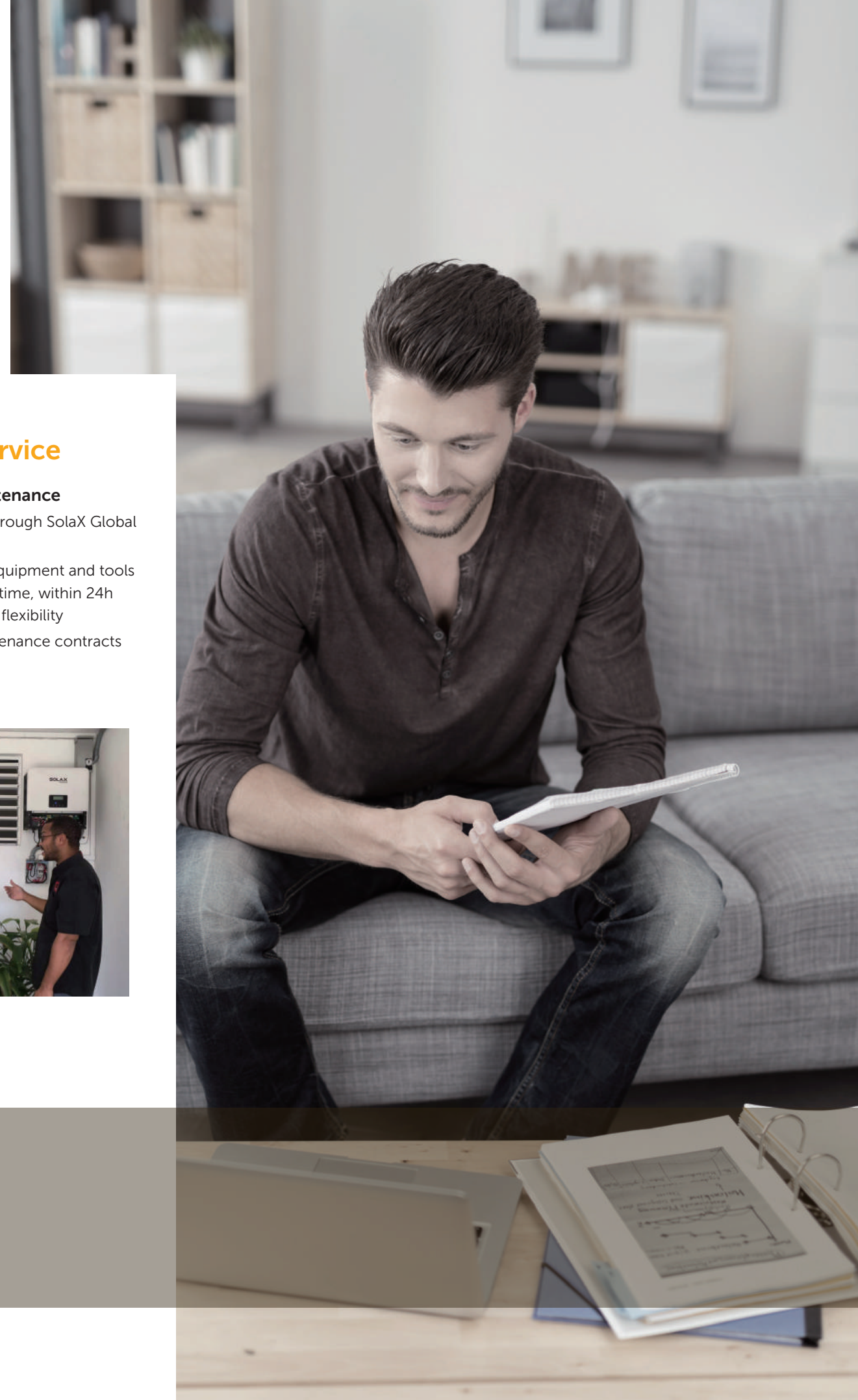
Warranty

- 5 Years Standard Warranty with purchasable warranty extension up to 20 years

On-Site Service

Repair, and Maintenance

- On-Site service through SolaX Global Team
- Latest technical equipment and tools
Short responding time, within 24h globally, and high flexibility
- Service and maintenance contracts available



GLOBALLY CERTIFIED

CERTIFICATE AUTHORITY



Standards-Compliant



CLIENT SAYS

Five years already when my inverter was installed/in service, since then till now still in good working condition.

Normelito Ulep, Philippines

The system is reliable and efficient.

G Tronchin, South Africa

Very flexible options. Designed with easy of install and use in mind.

Richard Meegdes, Netherlands

As a user, I think SolaX gives me a very good experience. Although there were some minor problems, it did not affect my love for it. I will continue to choose SolaX in the future

Mary

Among these big brands, I think SolaX is the most technologically advanced brand, which brings me the best experience. I have its products at home, and it understands me better than other brands

Lucy

Price quality the best on the market. Also a good after-sales service

Patrick, Belgium

Although the after-sales service is not very satisfactory, SolaX's products are definitely worth your purchase, which I have no doubt, so I will definitely recommend SolaX to those around me

Lendell

They appear to care about their products and their customers to a very high degree.

Bob, USA



SOLAX CLOUD

Everything you need to manage your power



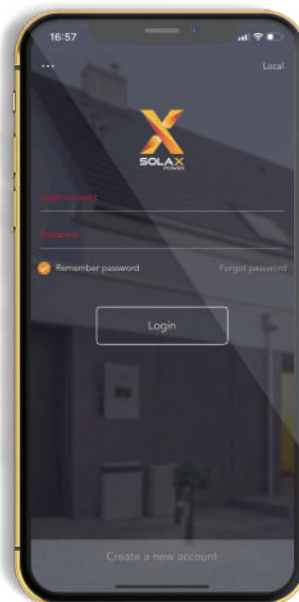
- All Platforms
- Monitor Usage
- Real-time Information
- Automatic Notifications
- Simple Interface

Control at your fingertips

Use your smart devices to connect and control your energy



Whether it's for residential or commercial applications, our centralized management and monitoring software can save your time and money. With SolaX Cloud, our customers and installers can always view critical data in real-time. Designed with the end-user in mind, the SolaX Cloud is simple to use. Everything you need at your fingertips.



SOLAX INVERTER DATASHEET



X1-MINI

S: Single MPPT D: With DC switch
N: Without DC switch L: With LCD Screen

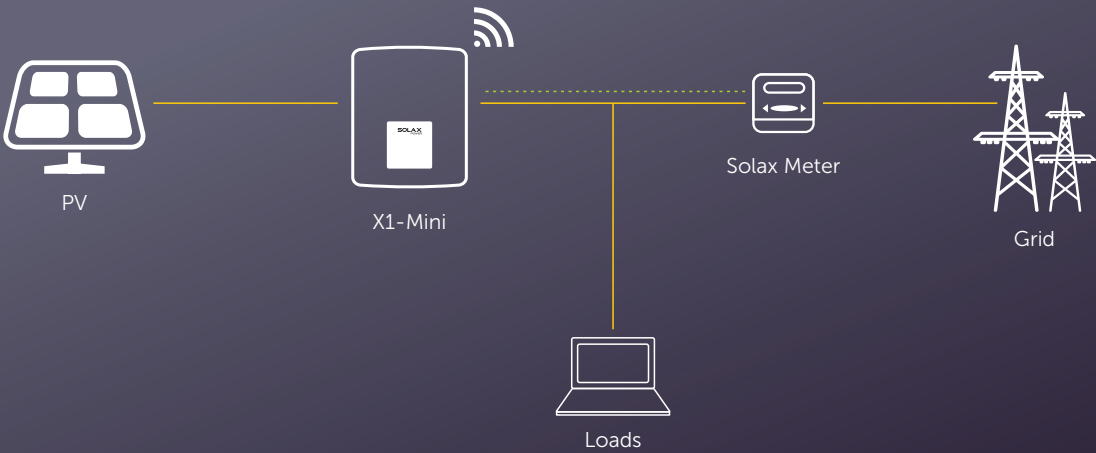
SINGLE-PHASE ON-GRID INVERTER

0.6~3.6kW

Features

- Small and compact size
- 150% oversizing and 110% overloading
- Max. DC input 14A per string
- Low startup voltage and wide MPPT range
- CT/Meter compatibility
- Built-in SPD on both AC and DC side
- Remote upgrade and maintenance

SOLUTION DESIGN



X1-MINI

SINGLE-PHASE

SINGLE-PHASE									
	X1-0.6-S-D(L) X1-0.6-S-N(L)	X1-0.7-S-D(L) X1-0.7-S-N(L)	X1-1.1-S-D(L) X1-1.1-S-N(L)	X1-1.5-S-D(L) X1-1.5-S-N(L)	X1-2.0-S-D(L) X1-2.0-S-N(L)	X1-2.5K-S-D(L) X1-2.5K-S-N(L)	X1-3K-S-D(L) X1-3K-S-N(L)	X1-3.3K-S-D(L) X1-3.3K-S-N(L)	X1-3.6K-S-D(L) X1-3.6K-S-N(L)
DC INPUT									
Max. PV array input power [Wp]	900	1050	1650	2250	3000	3750	4500	4950	5400
Max. PV input voltage [V]	450	450	450	450	450	550	550	550	550
Startup voltage [V]	50	50	50	50	50	70	70	70	70
Nominal input voltage [V]	360	360	360	360	360	360	360	360	360
MPP tracker voltage range [V]	45 ~ 430	45 ~ 430	45 ~ 430	50 ~ 430	50 ~ 430	55 ~ 530	55 ~ 530	55 ~ 530	55 ~ 530
No. of MPP trackers / Strings per MPP tracker	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
Max. PV input current [A]	14	14	14	14	14	14	14	14	14
Isc PV Array Short Circuit current [A]	18	18	18	18	18	18	18	18	18
AC OUTPUT									
Rated AC output power [W]	600	700	1100	1500	2000	2500	3000	3300	3680
Rated AC output current [A]	2.61	3.04	4.78	6.52	8.7	10.8	13.04	14.3	16
Max. output apparent power [VA]	660(600 for VDE4105)	770	1210	1650	2200	2750	3300	3300	3680
Max. AC output current [A]	2.9	3.3	5.3	7.2	9.6	11.9	14.3	14.3	16
Nominal AC voltage / AC voltage range [V]*	220/230/240; 180--280								
Nominal AC frequency / AC frequency range [Hz]*	50/60;±5								
Power Factor range	0.8 leading ~ 0.8 lagging								
THDi (Rated power) [%]	<3								
SYSTEM DATA									
Max. efficiency [%]	98								
Euro. efficiency [%]	95.00	95.00	95.50	96.00	96.50	96.50	96.50	96.50	96.50
Standby consumption [W] @Night	0								
Ingress protection	IP66								
Operating ambient temperature range [°C]	-25 ~ +60 (derating at 45)								
Max. operation altitude [m]	≤2000								
Humidity [%]	0~100 (condensation)								
Typical noise emission [dB]	30								
Storage temperature [°C]	-30~+70								
Dimensions (WxHxD) [mm]	267 x 328 x 126								
Net weight [kg]	6	6	6	6	6	8.3	8.3	8.3	8.3
Cooling concept	Natural cooling								
Communication interfaces	RS485 / DRM/USB, Optional: CT / Meter								
Optional monitoring dongle	Pocket WiFi / LAN / 4G								
Display	2 x LED + LCD (16 x 2) / APP								
PROTECTION									
Over/under voltage protection	YES								
DC isolation protection	YES								
Monitoring ground fault protection	YES								
Grid monitoring	YES								
DC injection monitoring	YES								
Back feed current monitoring	YES								
Residual current detection	YES								
Anti-islanding protection	YES								
Over temperature protection	YES								
SPD	YES								
STANDARD									
Safety	EN/IEC62109-1/-2								
EMC	EN61000-6-1/2/3/4;EN61000-3-2/3/11/12								
Certification	IEC61727, EN50549, G98/G99, AS 4777.2, VDE4105, CEI 0-21, RD1699, UNE 206007-1, VFR								

* The AC voltage and the frequency range may vary from different country codes

V3.4. Information may be subject to modify without notice.650.00020.00

X1-MINI G4

SINGLE-PHASE
ON-GRID INVERTER
0.6~3.3kW



Features

Upgraded Performance

- DC Input: 200% oversizing, 16A current, 40~450V wider MPPT voltage range
- In-built global MPP scan for higher yields

Flexible Adaptability

- Adapt to Home EV Charger Solution
- Mass management and broad extension via Datahub
- Extendable parallel solution via Modbus supported

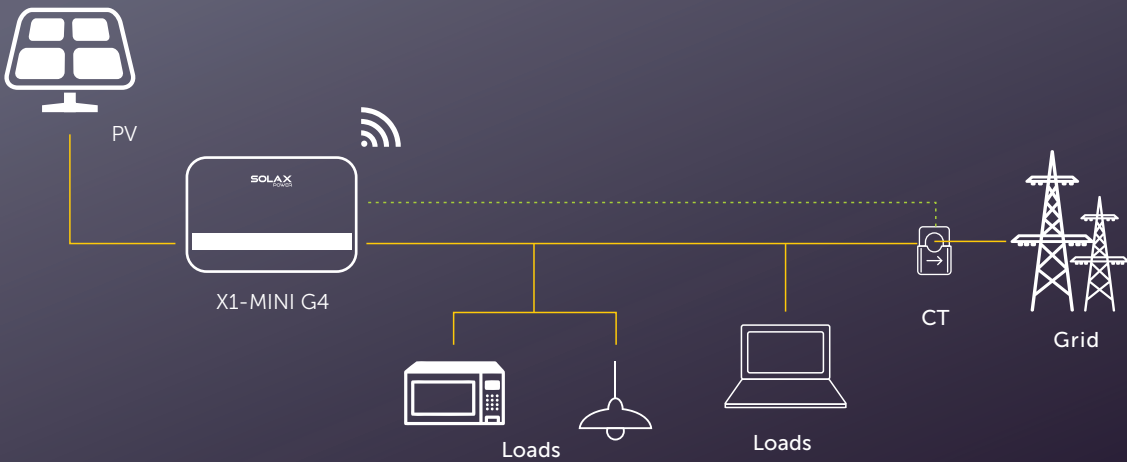
Advanced Safety

- AC/DC built-in Type II SPD (Optional) and I-V curve diagnosis supported
- Support external Rapid Shutdown device (RSD)
- Optional ARC detection (AFCI)
- Built-in export control function

Optimized Monitoring

- 10s level interval of data update (Optional)
- Multiple interfaces for presenting data

SOLUTION DESIGN



X1-MINI G4

SINGLE-PHASE

X1-MINI-0.6K-G4 X1-MINI-0.7K-G4 X1-MINI-1.1K-G4 X1-MINI-1.5K-G4 X1-MINI-2.0K-G4 X1-MINI-2.5K-G4 X1-MINI-3.0K-G4 X1-MINI-3.3K-G4

DC INPUT								
Max. PV array input power [Wp]	1200	1400	2200	3000	4000	5000	6000	6600
Max. PV input voltage [V]	450	450	450	450	450	550	550	550
Startup voltage [V]	50	50	50	50	50	50	50	50
Nominal input voltage [V]	360	360	360	360	360	360	360	360
MPP tracker voltage range [V]	40~450	40~450	40~450	40~450	40~450	40~550	40~550	40~550
No. of MPP trackers / Strings per MPP tracker	1/1							
Max. PV input current [A]	16							
Isc PV Array Short Circuit current [A]	22							
AC OUTPUT								
Rated AC output power [W]	600	700	1100	1500	2000	2500	3000	3300
Rated AC output current [A]	2.6	3.1	4.8	6.5	8.7	10.9	13.1	14.4
Max. AC output apparent power [VA]	600	770	1210	1650	2200	2750	3300	3300
Max. AC output current [A]	3	3.5	5.5	7.5	10	12.5	15	15
Nominal AC voltage/AC voltage range [V]**	220/230/240;90~285					220/230/240;90~290		
Nominal AC frequency/AC frequency range [Hz]**	50/60;±5							
Power Factor range	0.8 leading~0.8 lagging							
THDi (Rated power) [%]	<3							
SYSTEM DATA								
Max. efficiency [%]	98	98	98	98	98	98	98	98
Euro. efficiency [%]	96	96	96	97	97	97	97	97
Standby consumption [W] @Night	<1							
Ingress protection	IP66							
Protection class	Class I							
Over voltage category	II (DC),III (AC)							
Operating ambient temperature range [°C]	-25~60							
Max. operation altitude [m]	<4000							
Humidity [%]	0~100							
Typical noise emission [dB]	25							
Storage temperature [°C]	-30~70							
Dimensions (WxHxD) [mm]	290x206x120							
Weight [kg]	5.2	5.2	5.2	5.2	5.2	5.5	5.5	5.5
Cooling concept	Nature cooling							
Communication interfaces	USB/RS485/DRM, Optional: Meter/CT *							
Optional monitoring dongle	Pocket WiFi/LAN/4G							
Display	2 x LED + LCD(16 x 2) / APP							
PROTECTION								
Over/under voltage protection	Yes							
DC isolation protection	Yes							
Monitoring ground fault protection	Yes							
Grid monitoring	Yes							
DC injection monitoring	Yes							
Back feed current monitoring	Yes							
Residual current detection	Yes							
Anti-islanding protection	Yes							
Over temperature protection	Yes							
SPD (DC/AC)	Type II / Type II (Optional)							
Arc-fault circuit interrupter (AFCI)	Optional							
AC auxiliary power supply (APS)	Optional							
DC Switch	Optional							
STANDARD								
Safety	EN/IEC62109-1/2							
EMC	EN61000-6-1/2/3/4; EN61000-3-2/3/11/12							
Certification	IEC61727, EN50549, G98/G99, AS 4777.2, VDE4105, CEI 0-21, VFR							

* Not included in the package. Please purchase additionally.

** The AC voltage and the frequency range may vary from different country codes

* V1.1. Information may be subject to modify without notice.650.00030.00



X1-BOOST

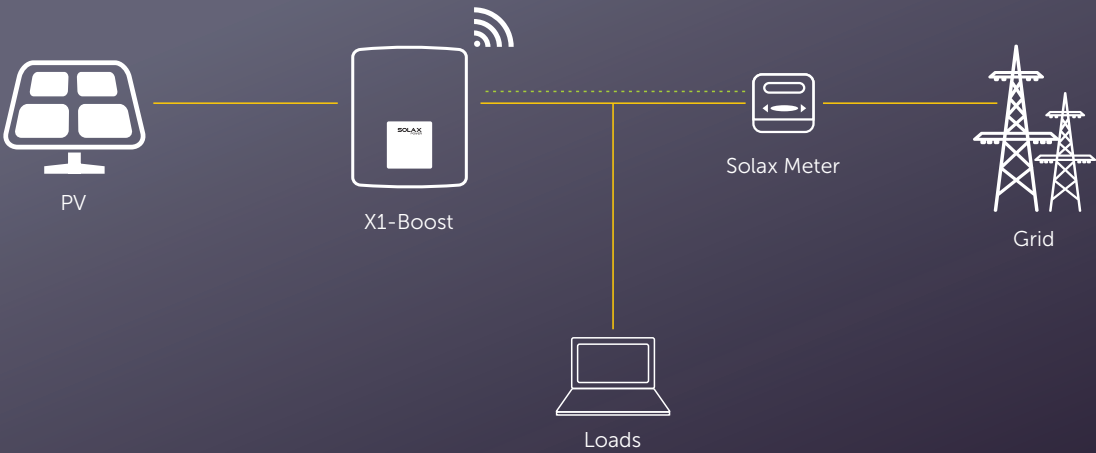
T: Dual MPPT D: With DC switch
N: Without DC switch L: With LCD Screen

SINGLE-PHASE ON-GRID INVERTER 3.0~6.0kW

Features

- Remote upgrade and maintenance
- 150% oversizing and 110% overloading
- Max. DC input 14A per string
- AC/DC built-in SPD
- CT/Meter compatibility
- Easy to install and setup
- 24h monitoring and maintenance (Optional)

SOLUTION DESIGN



X1-BOOST

SINGLE-PHASE

SINGLE-PHASE	X1-3.0-T-D(L) X1-3.0-T-N(L)	X1-3.3-T-D(L) X1-3.3-T-N(L)	X1-3.6-T-D(L) X1-3.6-T-N(L)	X1-4.2-T-D(L) X1-4.2-T-N(L)	X1-4.6-T-D(L) X1-4.6-T-N(L)	X1-5.0-T-D(L) X1-5.0-T-N(L)	X1-5.5K-T-D(L) X1-5.5K-T-N(L)	X1-6.0K-T-D(L) X1-6.0K-T-N(L)
DC INPUT								
Max. PV array input power [Wp]	4500	4950	5400	6300	6900	7500	8250	9000
Max. PV input Voltage [V]	600	600	600	600	600	600	600	600
Startup voltage [V]	100	100	100	100	100	100	100	100
Nominal input voltage [V]	360	360	360	360	360	360	360	360
MPP tracker voltage range [V]	70 ~ 580	70 ~ 580	70 ~ 580	70 ~ 580	70 ~ 580	70 ~ 580	70 ~ 580	70 ~ 580
No. of MPP trackers / Strings per MPP tracker	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1
Max. PV input current(Input A/Input B) [A]	14/14	14/14	14/14	14/14	14/14	14/14	14/14	14/14
Isc PV Array Short Circuit Current(Input A/Input B) [A]	18/18	18/18	18/18	18/18	18/18	18/18	18/18	18/18
AC OUTPUT								
Rated AC output power [W]	3000	3300	3680	4200	4600	5000 ^①	5500	6000
Rated AC output current [A]	13	14.3	16	18.3	20	21.7	23.9	26.1
Max. output apparent power [VA]	3300	3630	4048(3680 for G98/TOR)	4620	5060	5500 ^②	6050	6600(4600 for VDE4105)
Max. AC output current [A]	14.3	15.8	17.6(16 for G98/TOR)	20.1	22	23.9 ^③	26.3	28.7(20 for VDE4105)
Nominal AC voltage/ AC voltage range [V]*	220/230/240; 180~280							
Nominal AC frequency/AC frequency range [Hz]*	50/60; ±5							
Power Factor Range	0.8 leading ~ 0.8 lagging							
THDi (Rated power) [%]	<2							
SYSTEM DATA								
Max. Efficiency [%]	97.80							
Euro. Efficiency [%]	97.00							
Standby consumption [W] @Night	<2							
Ingress Protection	IP66							
Operating Ambient Temperature Range [°C]	-25~+60 (Derating at 45°C)							
Max. operation altitude [m]	≤3000							
Relative humidity [%]	0~100 (Condensing)							
Typical noise emission [dB]	30							
Storage temperature [°C]	-30~+70							
Dimensions (W x H x D) [mm]	341.5 x 430 x 143							
Net weight [kg]	13.5	13.5	13.5	15	15	15	15	15
Cooling concept	Natural Cooling							
Communication interfaces	RS485/DRM/USB, Optional: CT/Meter							
Optional monitoring dongle	Pocket WiFi/LAN/4G							
Display	2 x LED + LCD (16 x 2) / APP							
PROTECTION								
Over/under voltage protection	YES							
DC isolation protection	YES							
Monitoring ground fault protection	YES							
Grid monitoring	YES							
DC injection monitoring	YES							
Back feed current monitoring	YES							
Residual current detection	YES							
Anti-islanding protection	YES							
Over temperature protection	YES							
SPD	YES							
STANDARD								
Safety	IEC/EN 62109-1/-2							
EMC	EN61000-6-1/2/3/4, EN61000-3-2/3/11/12							
Certification	IEC61727, EN50549, G98/G99, AS 4777.2, VDE4105, CEI 0-21, RD1699, UNE 206007-1, VFR							

① 5000 (4600 for VDE4105) ② 5500 (4600 for VDE4105; 5000 for C10/11) ③ 23.9 (20 for VDE4105; 21.7 for C10/11)
* The AC voltage and the frequency range may vary from different country codes. V3.3. Information may be subject to modify without notice.650.000021.00

X1-BOOST G4

SINGLE-PHASE
ON-GRID INVERTER
2.5~6kW



Features

Superior Performance

- DC Input: 200% oversizing, 16A current, 50V startup voltage
- In-built global MPP scan for higher yield efficiency

Superb Adaptability

- Home EV Charger and Heat Pump Solution adaptable
- Mass management and broad extension via Datahub
- Master/Slave parallel solution via Modbus supported

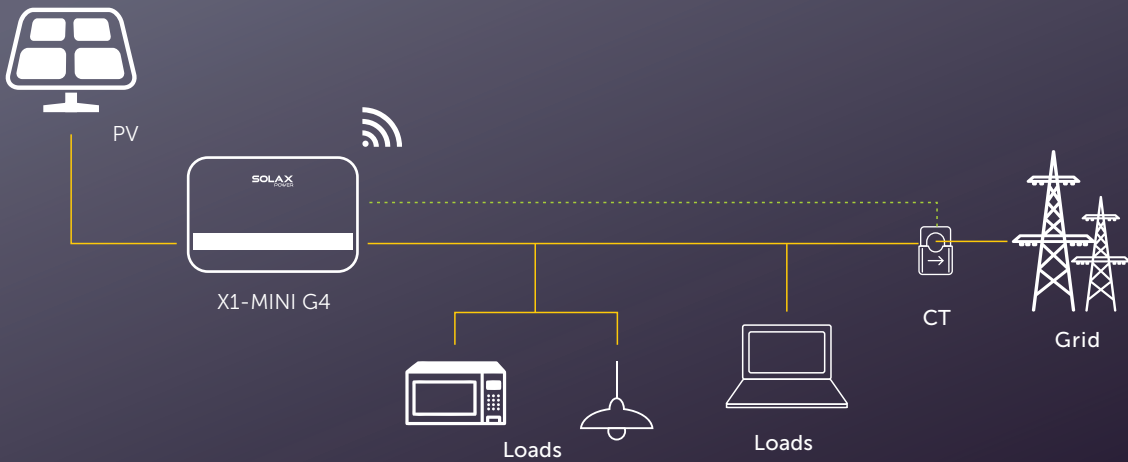
User Friendly Monitoring

- 10s level interval of data update(Optional, new WiFi dongle required)
- Quick and easy configuration (WiFi&APP)

Assured Safety & Reliability

- AC/DC built-in Type II SPD (Optional) and I-V curve diagnosis supported
- Optional external RSD (Rapid Shutdown) and integrated DC AFCI protection (Optional)
- In-built export control function

SOLUTION DESIGN



X1-BOOST G4

SINGLE-PHASE	X1-BOOST-2.5K-G4	X1-BOOST-3K-G4	X1-BOOST-3.3K-G4	X1-BOOST-3.6K-G4	X1-BOOST-4.2K-G4	X1-BOOST-5K-G4	X1-BOOST-6K-G4
DC INPUT							
Max. PV array input power [Wp]	6000	6000	6600	7200	8000	10000	12000
Max. PV input voltage [V]	600	600	600	600	600	600	600
Startup voltage [V]	50	50	50	50	50	50	50
Nominal input voltage [V]	360	360	360	360	360	360	360
MPP tracker voltage range [V]	40~560	40~560	40~560	40~560	40~560	40~560	40~560
No. of MPP trackers / String per MPP tracker				2 / 1			
Max. PV input current[A]				16 / 16			
Isc PV Array Short Circuit current [A]				22 / 22			
AC OUTPUT							
Rated AC output power [W]	2500	3000	3300	3680	4200	5000 ^①	6000
Rated AC output current [A]	10.9	13.1	14.4	16	18.3	21.7	26.1
Max. AC output apparent power [VA]	2750	3300	3630	4048 ^④	4620	5000 ^②	6000
Max. AC output current [A]	12	14.4	15.8	17.6 ^③	20.1	21.7 ^③	27.3
Nominal AC voltage / AC voltage range [V] **				220/230/240;90~290			
Nominal AC frequency / AC frequency range [Hz] **				50/60;±5			
Power Factor range				0.8leading~0.8lagging			
THDi (rated power) [%]				<3			
SYSTEM DATA							
Max. Efficiency [%]				98			
Euro. Efficiency [%]				97			
Standby consumption [W] @Night				<3			
Ingress protection				IP66			
Operating ambient temperature range [°C]				-25~60			
Max. operation altitude [m]				4000			
Relative humidity [%]				0~100			
Typical noise emission [dB]				25 ^⑥			
Storage temperature [°C]				-30~70			
Dimensions (W x H x D) [mm]				404x274x146			
Weight [kg]				11			
Cooling concept				Nature cooling			
Communication interfaces				USB/RS485/DRM, Optional: Meter/CT *			
Optional monitoring dongle				Pocket WiFi/LAN/4G			
Display				2 x LED + LCD (16 x 2) / APP			
PROTECTION							
Over / under voltage protection				Yes			
DC isolation protection				Yes			
Monitoring ground fault protection				Yes			
Grid monitoring				Yes			
DC injection monitoring				Yes			
Back feed current monitoring				Yes			
Residual current detection				Yes			
Anti-islanding protection				Yes			
Over temperature protection				Yes			
SPD (DC/AC)				Type II / Type II (Optional)			
Arc-fault circuit interrupter (AFCI)				Optional			
AC auxiliary power supply (APS)				Optional			
DC Switch				Optional			
STANDARD							
Safety				IEC / EN 62109-1 / -2			
EMC				EN61000-6-1 / 2 / 3 / 4, EN61000-3-2 / 3 / 11 / 12			
Certification				IEC61727, EN50549, G98/G99, AS 4777.2, VDE4105, CEI 0-21, VFR, PPDS, TOR			

① 5000 (4600 for VDE4105) ② 5000 (4600 for VDE4105) ③ 21.7 (20 for VDE4105) ④ 4048 (3680 For G98/G99, TOR and PPDS) ⑤ 17.6 (16 For G98/G99, TOR and PPDS)
⑥ For models with internal fan(Optional), typical noise emission is 30 dB
* Not included in the package. Please purchase additionally. ** The AC voltage and the frequency range may vary from different country codes. * V1.2. Information may be subject to modify without notice.650.00029.00

X3-MIC G2

THREE-PHASE
ON-GRID INVERTER
3~15kW



Features

High-efficiency

- Maximum efficiency is up to 98.3%
- Low startup voltage, ultrawide MPPT voltage range
- 200% oversizing, 110% overloading output (Except 15kW model)
- In-built global MPP scan for higher yield efficiency

Safe

- IP66 protection
- Integrated SPD protection on both AC&DC

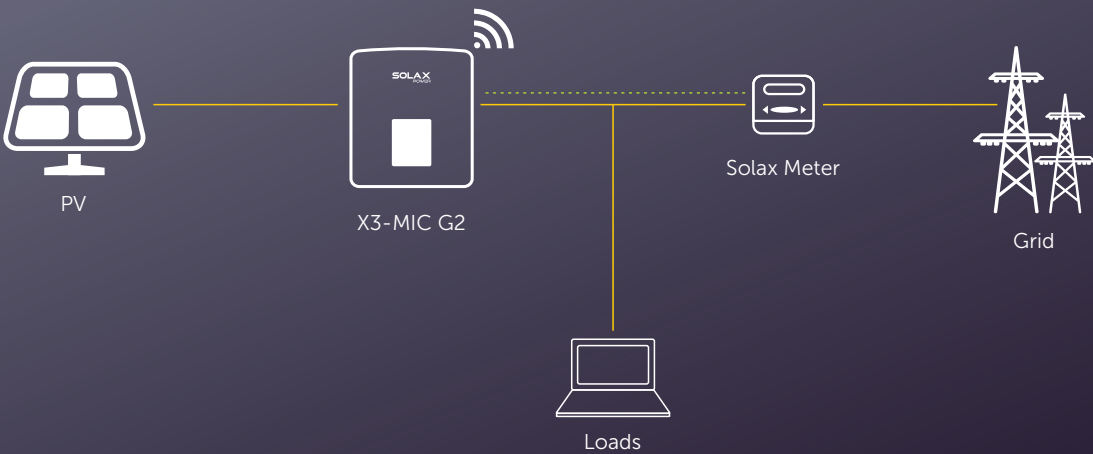
Smart

- Built-in export power control
- Remote setting and upgrading
- 24h monitoring and maintenance (Optional)
- Intelligent load management - heat pump (Adapter Box required)
- Multiple monitoring methods, Pocket Wi-Fi/LAN/4G (Optional)

Economic

- Ultra-high power density
- Maximum 16A DC input current per string, support high power solar panels

SOLUTION DESIGN



X3-MIC G2

THREE PHASE

DC INPUT

	X3-MIC-3K-G2	X3-MIC-4K-G2	X3-MIC-5K-G2	X3-MIC-6K-G2	X3-MIC-8K-G2	X3-MIC-10K-G2	X3-MIC-10KW-G2	X3-MIC-12K-G2	X3-MIC-15K-G2
Max. PV array input power [Wp]	6000	8000	10000	12000	16000	20000	20000	24000	30000
Max. PV input voltage [V]	1000	1000	1000	1000	1000	1000	1000	1000	1000
Startup voltage [V]	150	150	150	150	150	150	150	150	150
Nominal input voltage [V]	640	640	640	640	640	640	640	640	640
MPP tracker voltage range [V]	120~980	120~980	120~980	120~980	120~980	120~980	120~980	120~980	120~980
No. of MPP trackers/Strings per MPP tracker	2(1/1)	2(1/1)	2(1/1)	2(1/1)	2(1/1)	2(1/1) ^①	2(1/1)	2(2/1)	2(2/1)
Max. PV input current[A]	16/16	16/16	16/16	16/16	16/16	16/16 ^①	16/16	32/16	32/16
Isc PV Array Short Circuit current [A]	20/20	20/20	20/20	20/20	20/20	20/20 ^①	20/20	40/20	40/20

AC OUTPUT

Rated AC output power [W]	3000	4000	5000	6000	8000	10000	10000	12000	15000
Rated AC output current [A]*	4.6/4.4	6.1/5.8	7.6/7.3	9.1/8.7	12.2/11.6	15.2/14.5	15.2/14.5	18.2/17.4	22.7/21.8
Max. AC output apparent power [VA]	3300	4400	5500	6600	8800	11000	10000	13200	15000
Max. AC output current [A]	4.8	6.4	8.0	9.6	12.8	16.0	15.2	19.1	22.7
Nominal AC voltage/AC voltage range [V]**	220/380V, 230/400V, 3/N/PE; (95-285V)*								
Nominal AC frequency/AC frequency range [Hz]**	50/60; ±5								
Power Factor range	0.8 leading-0.8 lagging								
THDi (Rated power) [%]	<3								

SYSTEM DATA

Max. efficiency [%]	98.3								
Euro efficiency [%]	97.8								
Standby consumption (night) [W]	<3								
Ingress protection	IP66								
Operating ambient temperature range [°C]	-30~+60(Derating above 45)								
Max. operation altitude [m]	4000(Derating above 3000)								
Relative humidity [%]	0~100								
Typical noise emission [dB]	<30	<30	<30	<30	<45	<45	<45	<50	<50
Storage temperature [°C]	-30~+60								
Dimensions (WxHxD) [mm]	342*434*144.5						342*434*156		
Weight [kg]	15.5	15.5	15.5	15.5	17	17	17	18	18
Cooling concept	Natural cooling					Smart fan cooling			
Communication interfaces	USB/RS485/DRM, Optional: Meter								
Optional monitoring dongle	Pocket WiFi / LAN / 4G								
Display	2 x LED + LCD(16 x 2) / APP								

PROTECTION

Over/under voltage protection	YES
DC isolation protection	YES
DC reverse protection	YES
Grid monitoring	YES
DC injection monitoring	YES
Back feed current monitoring	YES
Residual current detection	YES
Anti-islanding protection	YES
Over temperature protection	YES
SPD (DC/AC)	Type II / T type II
Arc-fault circuit interrupter(AFCI)	Optional
AC auxiliary power supply(APS)	Optional

STANDARD

Safety	IEC/EN 62109-1; IEC/EN 62109-2; NB/T 32004
EMC	IEC/EN 61000; NB/T 32004
Certification	VDE4105; EN 50549; AS 4777.2; VDE4105; IEC 61727; IEC 62116; IEC 61683; IEC 60068; EN 50530; NB/T 32004

① Input 1 is optional with two strings(Max. input current: 32A, Max. short circuit current: 40A)

* The two data refer to different grid voltage 220V/230V

** The AC voltge and the frequency range may vary from different country codes

*V2.5. Information may be subject to modify without notice. 650.00003.00

X3-PRO G2

THREE-PHASE
ON-GRID INVERTER
8~30kW



Features

High-efficiency

- Maximum efficiency is up to 98.5%
- Low startup voltage, ultrawide MPPT voltage range
- 150% DC oversizing, 110% AC overloading output
- In-built global MPP scan for higher yield efficiency

Safe

- SPD type II protection on both AC&DC
- ARC protection (Optional)
- IP66 protection

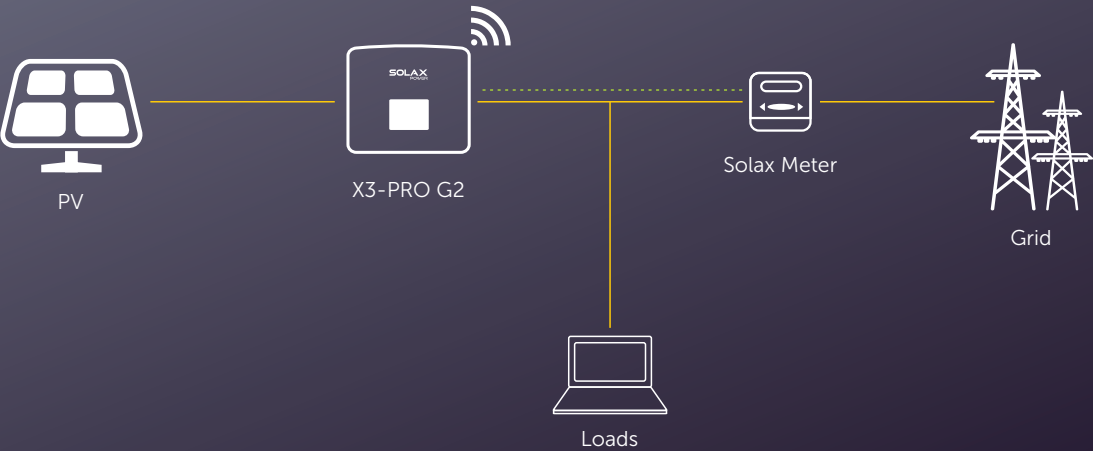
Smart

- Built-in export power control
- Intelligent load management - heat pump (Adapter Box required)
- 24h monitoring and maintenance (Optional)
- Multiple monitoring methods supported, Optional: WiFi/LAN/4G

Economic

- Ultra-high power density
- Maximum 32A DC input current per MPP tracker, support high power solar panels
- Up to 3 MPPTs, 2 strings per MPPT
- Support Master/Slave parallel function

SOLUTION DESIGN



X3-PRO G2

THREE-PHASE

	X3-PRO-8K-G2	X3-PRO-10K-G2	X3-PRO-12K-G2	X3-PRO-15K-G2	X3-PRO-17K-G2	X3-PRO-20K-G2	X3-PRO-25K-G2	X3-PRO-30K-G2
DC INPUT								
Max. PV array input power [Wp]	12000	15000	18000	22500	25500	30000	37500	45000
Max. PV input voltage [V]	1100	1100	1100	1100	1100	1100	1100	1100
Start startup voltage [V]	200	200	200	200	200	200	200	200
Nominal input voltage [V]	650	650	650	650	650	650	650	650
MPP tracker voltage range [V]	160~980							
No. of MPP trackers	2	2	2	2	2	2	3	3
Strings per MPP tracker	2	2	2	2	2	2	2	2
Max. PV input current [A]	32/32	32/32	32/32	32/32	32/32	32/32	32/32/32	32/32/32
Isc PV Array Short Circuit current [A]	40/40	40/40	40/40	40/40	40/40	40/40	40/40/40	40/40/40
AC OUTPUT								
Rated AC output power [kW]	8000	10000	12000	15000	17000	20000	25000	30000
Rated AC output current [A]*	12.2/11.6	15.2/14.5	18.2/17.4	22.8/21.8	25.8/24.7	30.3/29	37.9/36.3	45.5/43.5
Max. AC output apparent power [VA]	8800	11000	13200	16500	18700	22000	27500	30000
Max. AC output current [A]	13.2	16	19.3	24.2	27.5	33.6	41.8	45.5
Nominal AC voltage/AC voltage range [V]**	220/380V, 230/400V, 3/N/PE, 3/PE; 95-285V							
Nominal AC frequency/AC frequency range [Hz]**	50/60; ±5							
Power Factor range	0.8 leading ~ 0.8 lagging							
THDi (Rated power) [%]	<3							
SYSTEM DATA								
Max. efficiency [%]	98.20	98.20	98.20	98.30	98.30	98.30	98.50	98.50
Euro efficiency [%]	97.70	97.70	97.70	97.80	97.80	97.80	98.00	98.00
Standby consumption (Night) [W]	<3							
Ingress protection	IP66							
Operating ambient temperature range [°C]	-30~+60 (Derating above 45)							
Max. operation altitude [m]	4000 (Derating above 3000)							
Relative humidity [%]	0~100							
Typical noise emission [dB]	<35	<35	<35	<55	<55	<55	<55	<58
Storage temperature [°C]	-30~+60							
Dimensions (WxHxD) [mm]	482x417x181							
Weight [kg]	24.5				26		28	
Cooling concept	Natural cooling				Smart fan cooling			
Communication interfaces	USB / RS485 / DRM, Optional: Meter							
Optional monitoring dongle	Pocket WiFi/LAN/4G							
Display	2 x LED + LCD (16 x 2) / APP							
PROTECTION								
Over/under voltage protection	YES							
DC isolation protection	YES							
Grid monitoring	YES							
DC injection monitoring	YES							
Residual current detection	YES							
Anti-islanding protection	YES							
Over Temp protection	YES							
SPD (DC/AC)	Type II / Type II							
AC auxiliary power supply (APS)	Optional							
Arc-fault circuit interrupter (AFCI)	Optional							
STANDARD								
Safety	IEC/EN 62109-1; IEC/EN 62109-2; NB/T 32004							
EMC	IEC/EN 61000; NB/T 32004							
Certification	VDE4105; EN 50549; AS 4777.2; VDE4105; IEC 61727; IEC 62116; IEC 61683; IEC 60068; EN 50530; NB/T 32004							

* The two data refer to different grid voltage 220V/230V

** The AC voltage and the frequency range may vary from different country codes

*V2.4. Information may be subject to modify without notice. 650.00004.00

X3-MEGA G2

THREE-PHASE
ON-GRID INVERTER
40~60kW



Features

More energy harvest

- Maximum efficiency 98.4%
- 180~1000Vdc MPPT voltage range
- Maximum 6 MPPTs, 2 strings per MPP tracker
- 150% PV oversizing input, 110% overloading output
- Maximum 32A MPPT current

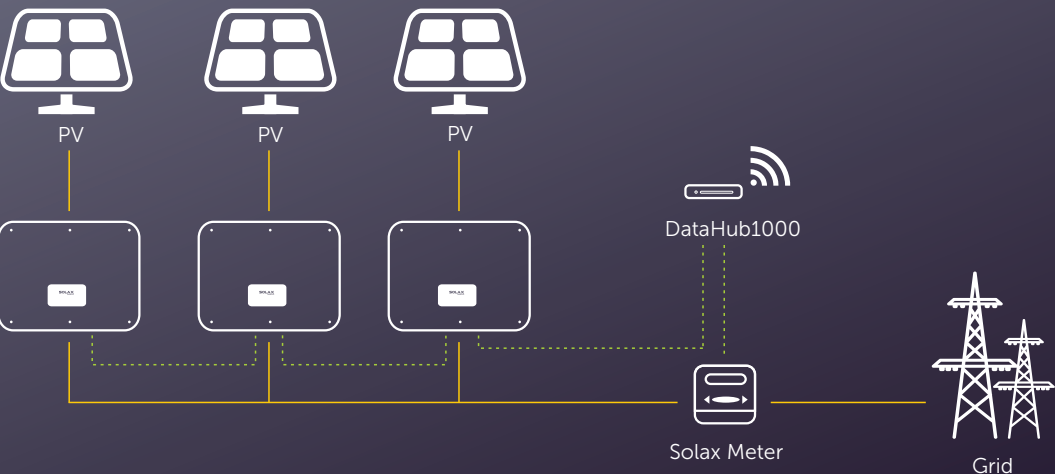
Safety & Reliability

- IP66 protection level
- AFCI protection (Optional)
- Both AC&DC SPDs(Type II) inside, Type I+II SPD is optional

Intelligence for easy maintenance and economy

- Built-in export power control
- Remote setting and upgrading
- Smart I-V Curve Diagnosis supported
- Aluminium AC cable connection available
- Fuse free design with smart string current monitoring
- Night-time reactive power compensation
- 24 hours operation monitoring (Optional)
- Power line communication (PLC) (Optional)
- Smart air cooling technique results in long lifetime of fans
- Advanced heat dissipation technology makes the system more than 10% lighter and smaller

SOLUTION DESIGN



X3-MEGA G2

THREE-PHASE

X3-MGA-40K-G2

X3-MGA-50K-G2

X3-MGA-60K-G2

DC INPUT

Max. PV array input power [kWp]
Max. PV input voltage [V]
Startup voltage [V]
Nominal input voltage [V]
MPP tracker voltage range [V]
No. of MPP trackers
Strings per MPP tracker
Max. PV input current per MPPT [A]
Isc PV Array Short Circuit current per MPPT [A]

60	75	90
	1100	
	200	
	600	
	180~1000	
4	5	6
2	2	2
	32	
	46	

AC OUTPUT

Rated AC output power [kW]
Rated AC output current [A]*
Max. AC output apparent power [kVA]
Max. AC output current [A]*
Nominal AC voltage [V]
AC voltage range [V]**
Nominal AC frequency / AC frequency range [Hz]**
Power Factor range
THDi (Rated power) [%]

40	50	60
60.6 / 58	75.8 / 72.5	90.9 / 87
44	55	66
66.7 / 63.8	83.3 / 79.7	100 / 95.7
	220/380V, 230/400V, 3/N/PE, 3/PE	
	304~460	
	50/60; ±5	
	0.8 leading ~ 0.8 lagging	
	<3	

SYSTEM DATA

Max. efficiency [%]
Euro. efficiency [%]
Standby consumption [W] @Night
Ingress protection
Operating ambient temperature range [°C]
Max. operation altitude [m]
Relative humidity [%]
Dimensions [WxHxD] [mm]
Weight [kg]
Cooling concept
Communication interfaces
Optional monitoring dongle
Display

	98.4	
	98.1	
	<2	
	IP66	
	-30~+60 (Derating above 45)	
	4000 (Derating above 3000)	
	0~100	
	630*521*286	
44	44.5	45.5
Smart fan cooling		
RS485 / USB / DRM / PLC(Optional)		
Pocket WiFi / LAN / 4G		
LCD (16x2, optional) / LEDx4		

PROTECTION

Over/under voltage protection
Over current protection
DC isolation protection
Grid monitoring
DC injection monitoring
Residual current detection
Anti-islanding protection
String fault detection
Over temperature protection
SPD (DC/AC)
Arc-fault circuit interrupter (AFCI)
AC auxiliary power supply (APS)
Power line communication (PLC)

YES
YES
YES
YES
YES
YES
YES
YES
YES
Type II / Type II
Optional
Optional
Optional

STANDARD

Safety
EMC
Certification

IEC/EN 62109-1; IEC/EN 62109-2; NB/T 32004
EN/IEC 61000; NB/T 32004
VDE4105; EN 50549; AS 4777.2; VDE4105; IEC 61727; IEC 62116; IEC 61683; IEC 60068; EN 50530; NB/T 32004

* The two data refer to different grid voltage 220V/230V
** The AC voltage and the frequency range may vary from different country codes

*V2.6. Information may be subject to modify without notice. 650.00002.00

X3-FORTH

THREE-PHASE
ON-GRID INVERTER
80~150kW



Features

More energy harvest

- Maximum efficiency up to 99%
- 180~1000Vdc MPPT voltage range
- Maximum 12 MPPTs, 2 strings per MPP tracker
- 150% PV oversizing input, 110% overloading output
- Maximum 32A MPPT current

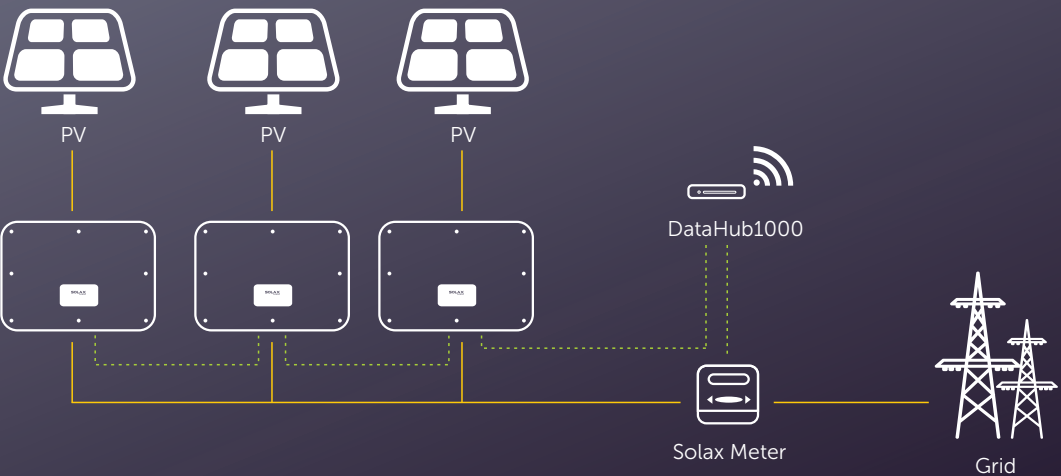
Safety & Reliability

- IP66 protection level
- AFCI protection (Optional)
- AC terminal temperature detection
- Both AC&DC SPDs(Type II) inside, Type I+II SPD is optional

Intelligence for easy maintenance and economy

- Built-in export power control
- Remote setting and upgrading
- 24 hours operation monitoring
- Smart I-V Curve Diagnosis supported
- Night-time reactive power compensation
- Aluminium AC cable connection available
- Power line communication(PLC)(Optional)
- Fuse free design with smart string current monitoring
- Smart air cooling technique results in long lifetime of fans
- Advanced heat dissipation technology makes the system more than 5% lighter and smaller

SOLUTION DESIGN



X3-FORTH

THREE PHASE

X3-FTH-80K X3-FTH-100K X3-FTH-110K X3-FTH-120K X3-FTH-125K X3-FTH-136K-MV X3-FTH-150K-MV

DC INPUT							
Max. PV array input power [kWp]	120	150	165	180	188	204	225
Max. PV input voltage [V]	1100	1100	1100	1100	1100	1100	1100
Nominal input voltage [V]*	580/600	580/600	580/600	580/600	580/600	730/785	730/785
Startup voltage [V]	200	200	200	200	200	200	200
MPP tracker voltage range [V]	180~1000	180~1000	180~1000	180~1000	180~1000	180~1000	180~1000
No. of MPP trackers	9	9	9	12	12	12	12
Strings per MPP tracker				2			
Max. PV input current per MPPT [A]				32			
Isc PV Array Short Circuit current per MPPT [A]				46			
AC OUTPUT							
Rated AC output power [kW]	80	100	110	120	125	136	150
Rated AC output current [A]*	121.3/116	151.6/145	166.7/159.5	181.9/174	189.4/181.2	157.1/145.4	173.2/160.4
Max. AC output apparent power [kVA]	88	110	121	132	132	149.6	165
Max. AC output current [A]*	133.4/127.6	166.7/159.5	183.4/175.4	200/191.3	200/191.3	172.8/160	190.6/176.5
Nominal AC voltage [V]	220/380, 230/400, 3/N/PE, 3/PE					500/540,3P3W+PE	500/540,3P3W+PE
AC voltage range [V]**	304 ~ 480					425 ~ 594	
Nominal AC frequency/AC frequency range [Hz]**	50/60; ±5						
THDi (Rated power) [%]	<3						
Power Factor range	0.8 leading ~ 0.8 lagging						
SYSTEM DATA							
MPPT efficiency [%]	99.9						
Max. efficiency [%]	98.6	98.6	98.6	98.6	98.6	99.0	99.0
Ingress protection	IP66						
Operating ambient temperature range [°C]	-30~+60 (Derating above 45)						
Max. operation altitude [m]	4000 (Derating above 3000)						
Relative humidity [%]	0~100						
Dimensions [WxHxD] [mm]	985x660x327.5						
Weight [kg]	83	83	83	87	87	87	87
Cooling concept	Smart fan cooling						
Communication interfaces	RS485 / USB / DRM / PLC(Optional)						
Optional monitoring dongle	Pocket WiFi/LAN/4G						
Display	LCD(16x2, optional)/LEDx4						
PROTECTION							
Over/under voltage protection	YES						
DC isolation protection	YES						
Grid monitoring	YES						
DC injection monitoring	YES						
Residual current detection	YES						
Anti-islanding protection	YES						
String fault detection	YES						
SPD (DC/AC)	Type II / Type II						
Arc-fault circuit interrupter(AFCI)	Optional						
AC terminals over temperature detection	YES						
AC auxiliary power supply(APS)	Optional						
Power line communication(PLC)	Optional						
STANDARD							
Safety	IEC/EN 62109-1; IEC/EN 62109-2; NB/T 32004						
EMC	IEC/EN 61000; NB/T 32004						
Certification	EN 50549; AS4777.2; VDE4105; IEC 61727; IEC 62116; IEC 61683; IEC 60068; EN 50530; NB/T 32004						

* The two data refer to different grid voltage 220V/230V or 500V/540V

** The AC voltage and the frequency range may vary from different country codes

V2.7 Information may be subject to modify without notice.650.00001.00

X1-HYBRID G4

D: Should be used without matebox
M: Should be used with matebox

SINGLE-PHASE
3.0~7.5kW



Features

High-efficient

- 200% PV oversized and up to 110% AC overload output
- Higher efficiency on charging and discharging, up to 97.0%
- Built-in shadow tracking function

Economic

- 16A DC input current, support high power solar panel
- Up to 150% PV input
- Store the surplus energy from PV to battery
- Low start output voltage makes inverter longer working time
- Less energy loss on battery to inverter

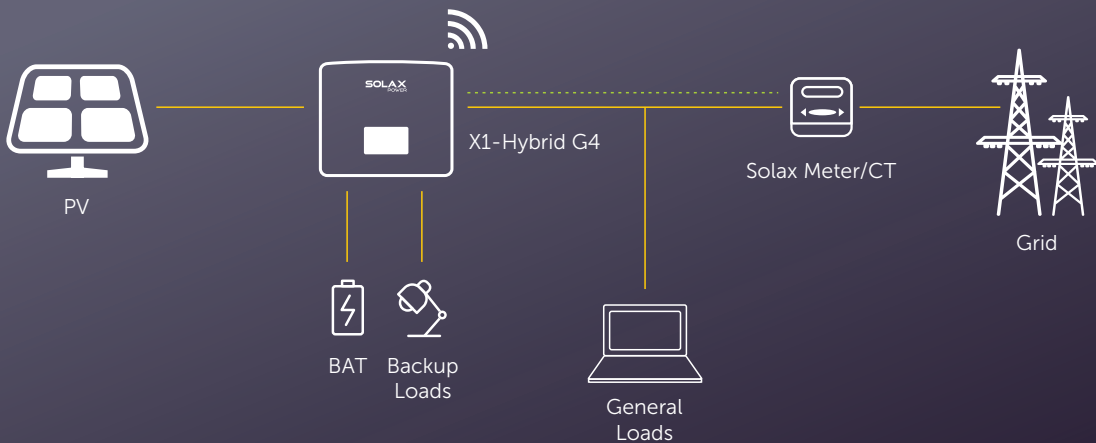
Intelligent

- Up to 120% EPS output for 1h
- Switchover time <10ms
- Quick configuration with U-disk
- Lithium-ion & Lead-acid battery compatible
- CT compatible, loads respond within 0.3s
- Intelligent loads management (e.g., Heat pump)
- On & Off-grid parallel function, up to 15kW
- 5 work modes, 2 charging periods available
- VPP ready, ancillary service in power market

Safe

- IP65 protection level
- Integrated SPD

SOLUTION DESIGN



X1-HYBRID G4

SINGLE-PHASE

X1-HYBRID-3.0-D
X1-HYBRID-3.0-M

X1-HYBRID-3.7-D
X1-HYBRID-3.7-M

X1-HYBRID-4.6-D
X1-HYBRID-4.6-M

X1-HYBRID-5.0-D
X1-HYBRID-5.0-M

X1-HYBRID-6.0-D
X1-HYBRID-6.0-M

X1-HYBRID-7.5-D
X1-HYBRID-7.5-M

DC INPUT						
Max. PV array power [Wp]	6000	7400	9200	10000	12000	15000
Max. PV input power ^① (PV1+PV2) [Wp]	4500	5500	6900	7500	9000	10000
Max. PV input voltage [V]	600	600	600	600	600	600
Start output voltage [V]	90	90	90	90	90	90
Nominal input voltage [V]	360	360	360	360	360	360
MPPT voltage range [V]	70 ~550	70 ~550	70 ~550	70 ~550	70 ~550	70 ~550
No. of MPPT trackers / Strings per MPP tracker	2 (1/1)	2 (1/1)	2 (1/1)	2 (1/1)	2 (1/1)	2 (1/1)
Max. input current (input PV1 /input PV 2) [A]	16 /16	16 /16	16 /16	16 /16	16 /16	16 /16
Max. short circuit current (input PV1 /input PV 2) [A]	20 /20	20 /20	20 /20	20 /20	20 /20	20 /20
AC INPUT & OUTPUT						
Nominal AC output power [W]	3000	3680	4600	5000 (Germany 4600, AU 4999)	6000	7500
Max. AC output apparent power [VA]	3300	3680	4999 (Germany 4600)	5500 (4600 for VDE4105, 4999 for AS4777)	6600	7500
Max. AC output current [A]	14.4	16	21.7 (Germany 20)	23.9 (Germany 20, AU 21.7)	28.6	32.6
Max. AC input apparent power [VA]	6300	7360	9200	9200	9200	9200
Max. AC input current [A]	27.4	32	40	40	40	40
Nominal AC voltage [V]	230 / 240					
Nominal grid frequency [Hz]	50 / 60					
Displacement power factor	0.8 leading ~0.8 lagging					
THDi (rated power) [%]	<2					
BATTERY DATA						
Battery type	Lithium-ion battery / Lead-acid Battery					
Battery voltage range [V]	80 ~ 480					
Max. continuous charge /discharge current [A]	30					
EPS (OFF-GRID OR BACK-UP) OUTPUT (WITH BATTERY)						
Nominal output power [W]	3000	3680	4600	5000	6000	7500
Peak apparent power [VA]	3600, 1h	4416,1h	5520, 1h	6000, 1h	7200, 10min	7500
Max. continous current [A]	13	16	21.7	21.7	26.1	32.6
Nominal voltage [V]; Frequency [Hz]	230; 50 / 60					
Switch time [ms]	<10					
Parallel operation	YES					
SYSTEM DATA						
Max. efficiency [%]	97.6					
Euro. efficiency [%]	97.0					
Battery charge / discharge efficiency [%] ^②	97.0 / 97.0					
Degree of protection	IP65					
Operating temperature range [°C]	-35 ~ +60 (Derating above +45)					
Max. operation altitude [m]	<3000					
Relative humidity [%]	0 ~ 100					
Typical noise emission [dB]	<30					<45
Storage temperature [°C]	-40 ~ +65					
Dimensions (WxHxD) [mm]	482x417x181					
Net weight [kg]	24					25
Cooling concept	Nature cooling					Smart cooling
Communication interfaces	CT/Meter (optional), External control RS485, Pocket WiFi (Optional: Pocket Lan/4G), DRM, USB Upgrade, NTC (optional)					
POWER CONSUMPTION						
Internal consumption (night) [W]	<17W for standby, <2.7W for idle					
STANDARD						
Safety	EN/IEC62109-1/-2					
EMC	EN61000-6-1/2/3/4; EN61000-3-2/3/11/12					
Certification	VDE4105, G99, G98, AS4777, EN50549, CEI 0-21, IEC61727, RD1699, NRS 097-2-1, PEA/MEA, VFR2019, C10/11					

①: Indicates that all model single PV1 & PV2 input power upper limit is 5000 W. [¹Max. PV input power^① (PV1+PV2)* restriction takes precedence].

②: PV to BAT Max. efficiency 97.0%, BAT to AC Max. efficiency 97.0%.

V2.4. Information may be subject to modify without notice.650.00009.00

X3-HYBRID G4

D: Should be used without matebox
M: Should be used with matebox

THREE-PHASE
HYBRID INVERTER

5.0~15kW



Features

High-efficient

- 200% PV oversized and up to 110% AC overload output
- Higher efficiency on charging and discharging, up to 97.5%
- Built-in shadow tracking function

Economic

- 16A DC single string input current, support high power solar panel
- Up to 150% PV input
- Store the surplus energy from PV to battery
- Low start output voltage makes inverter longer working time
- Less energy loss on battery to inverter

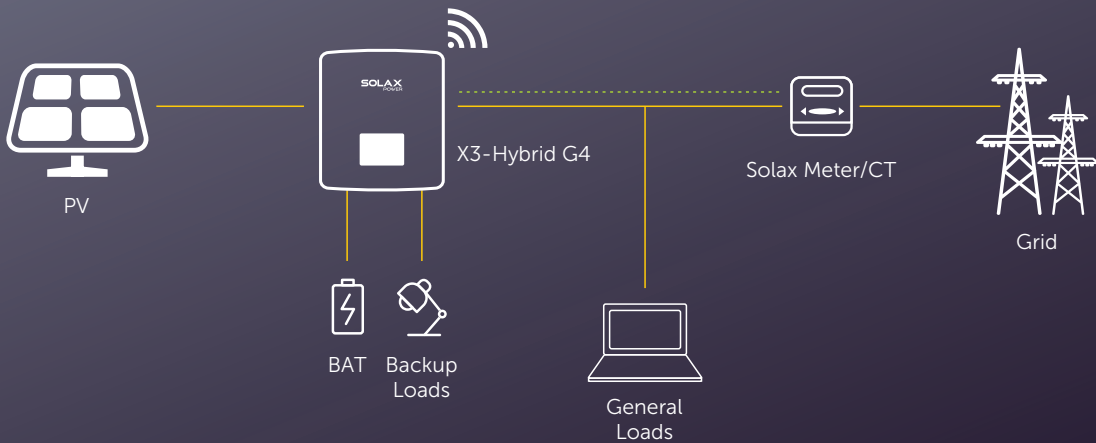
Intelligent

- Up to 150% EPS output for 60s
- Switchover time <10ms
- Quick configuration with U-disk
- Lithium-ion & Lead-acid battery compatible
- CT compatible, loads respond within 0.3s
- Intelligent loads management (e.g., Heat pump)
- On & Off-grid parallel function, up to 150kW
- 5 work modes, 2 charging periods available
- VPP ready, ancillary service in power market
- Three-phase unbalanced output Maximum 5kW output power on single phase at most

Safe

- IP65 protection level
- Integrated SPD

SOLUTION DESIGN



X3-HYBRID G4

THREE-PHASE

X3-HYBRID-5.0-D
X3-HYBRID-5.0-M

X3-HYBRID-6.0-D
X3-HYBRID-6.0-M

X3-HYBRID-8.0-D
X3-HYBRID-8.0-M

X3-HYBRID-10.0-D
X3-HYBRID-10.0-M

X3-HYBRID-12.0-D
X3-HYBRID-12.0-M

X3-HYBRID-15.0-D
X3-HYBRID-15.0-M

DC INPUT						
Max. PV array power [Wp]	10000	12000	16000	20000	24000	30000
Max. PV input power (PV1+PV2) [Wp]	PV1:4000 / PV2:4000	PV1:5000 / PV2:5000	PV1:8500 / PV2:5000	PV1:10500 / PV2:6000	PV1:11000 / PV2:7000	PV1:11000 / PV2:7000
Max. PV input voltage [V]	1000	1000	1000	1000	1000	1000
Start output voltage [V]	200	200	200	200	200	200
Nominal input voltage [V]	640	640	640	640	640	640
MPP voltage range [V]	180 ~ 950	180 ~ 950	180 ~ 950	180 ~ 950	180 ~ 950	180 ~ 950
No. of MPP trackers / Strings per MPP tracker	2 (1 / 1)	2 (1 / 1)	2 (2 / 1)	2 (2 / 1)	2 (2 / 1)	2 (2 / 1)
Max. input current (input PV1 / input PV2) [A]	16 / 16	16 / 16	28 / 16	28 / 16	28 / 16	28 / 16
Max. short circuit current (input PV1 / input PV2) [A]	20 / 20	20 / 20	35 / 20	35 / 20	35 / 20	35 / 20

AC INPUT & OUTPUT						
Nominal AC output power [W]	5000	6000	8000	10000	12000	15000
Max. AC output apparent power [VA]	5500	6600	8800	11000	13200	15000
Max. AC output current [A]	8.1	9.7	12.9	16.1	19.3	24.1
Max. AC input apparent power [VA]	10000	12000	16000	20000	20000	20000
Max. AC input current [A]	16.1	19.3	25.8	32.0	32.0	32.0
Nominal AC voltage [V]	415 / 240; 400 / 230; 380 / 220					
Nominal grid frequency [Hz]	50 / 60					
Displacement power factor	0.8 leading ~ 0.8 lagging					
THDi (rated power) [%]	<3					

BATTERY DATA						
Battery type	Lithium-ion battery / Lead-acid Battery					
Battery voltage range [V]	180 ~ 800					
Max. continuous charge / discharge current [A]	30					

EPS(OFF-GRID OR BACK-UP) OUTPUT (WITH BATTERY)						
Nominal output power [W]	5000	6000	8000	10000	12000	15000
Peak apparent power [VA]	7500,60s	9000, 60s	12000,60s	15000, 60s	15000, 60s	16500, 60s
Max.continuous current [A]	7.2	8.7	11.6	14.5	17.5	21.8
Nominal voltage [V]; Frequency [Hz]	400 / 230; 50 / 60					
Switch time [ms]	<10					
Parallel operation	YES					

SYSTEM DATA		
Max. efficiency [%]	98.0	
Euro. efficiency [%]	97.7	
Battery charge / discharge efficiency [%] ^①	98.5 / 97.5	
Degree of protection	IP65	
Operating temperature range [°C]	-35 ~ +60 (Derating above +45)	
Max. operation altitude [m]	<3000	
Relative humidity [%]	0 ~ 100	
Typical noise emission [dB]	<35	<45
Storage temperature [°C]	-40 ~ +70	
Dimensions (WxHxD) [mm]	503x503x199	
Net weight [kg]	30	
Cooling concept	Nature cooling	Smart cooling
Communication interfaces	CT/Meter (optional), External control RS485, Pocket WiFi (Optional: Pocket Lan/4G), DRM, USB Upgrade, NTC (optional)	

POWER CONSUMPTION						
Internal consumption (night) [W]	<40W for standby, <5W for idle					

STANDARD						
Safety	EN/IEC62109-1/-2					
EMC	EN61000-6-1/2/3/4; EN61000-3-2/3/11/12					
Certification	VDE4105, G99, G98, AS4777, EN50549, CEI 0-21, IEC61727, PEA/MEA, NRS-097-2-1, RD1699, TOR					

①: PV to BAT Max. efficiency 98.5%, BAT to AC Max. efficiency 97.5%.

V2.3. Information may be subject to modify without notice. 650.00010.00

X1-FIT G4

SINGLE-PHASE
AC COUPLED HYBRID INVERTER
3.0~7.5kW



Features

High-efficient

- Up to 110% AC overload output
- Higher efficiency on charging and discharging, up to 97.0%

Economic

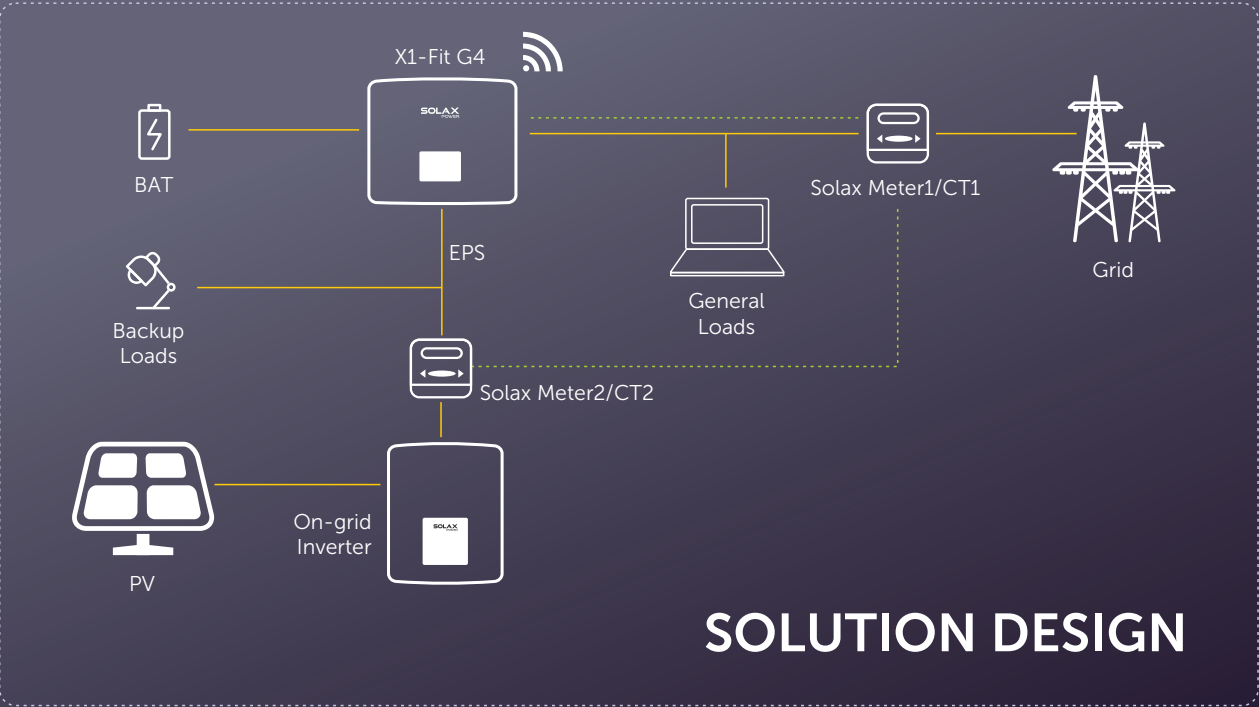
- Store the surplus energy to battery
- Less energy loss on battery to inverter

Safe

- IP65 protection level
- Integrated SPD

Intelligent

- Up to 120% EPS output for 1h
- Switchover time <10ms
- Quick configuration with U-disk
- Lithium-ion & Lead-acid battery compatible
- CT compatible, loads respond within 0.3s
- Intelligent loads management (e.g., Heat pump)
- On & Off-grid parallel function, up to 150kW
- 5 work modes, 2 charging periods available
- VPP ready, ancillary service in power market



SOLUTION DESIGN

X1-FIT G4

SINGLE-PHASE

	X1-FIT-3.7-W	X1-FIT-4.6-W	X1-FIT-5.0-W	X1-FIT-6.0-W	X1-FIT-7.5-W
AC INPUT & OUTPUT					
Nominal AC output power [W]	3680	4600	5000 (Germany 4600, AU 4999)	6000	7500
Max. AC output apparent power [VA]	3680	4999 (Germany 4600)	5500 (4600 for VDE4105, 4999 for AS4777)	6600	7500
Max. AC output current [A]	16	21.7 (Germany 20)	23.9 (Germany 20, AU 21.7)	28.6	32.6
Max. AC input apparent power [VA]	7360	9200	9200	9200	9200
Max. AC input current [A]	32	40	40	40	40
Nominal AC voltage	220 / 230 / 240				
Nominal grid frequency [Hz]	50 / 60				
Displacement power factor	0.8 leading ~ 0.8 lagging				
THDi, rated power [%]	<2				
BATTERY DATA					
Battery Type	Lithium-ion battery / Lead-acid battery				
Battery voltage range [V]	80 ~ 480				
Max.continuous charge / discharge current [A]	30				
EPS(OFF-GRID OR BACK-UP) OUTPUT (WITH BATTERY)					
Nominal output power [W]	3680	4600	5000	6000	7500
Peak apparent power [VA, min]	4416, 60	5520, 60	6000, 60	7200, 10	7500
Max.continuous current [A]	16	21.7	21.7	26.1	32.6
Nominal Voltage [V]; Frequency [Hz]	230; 50 / 60				
Switch time [ms]	<10				
Parallel Operation	YES				
SYSTEM DATA					
Battery charge / discharge efficiency [%]	97.0 / 97.0				
Degree of protection	IP65				
Operating temperature range [°C]	-35 ~ +60 (Derating above +45)				
Max. operation altitude [m]	<3000				
Relative humidity [%]	0 ~ 100				
Typical noise emission [dB]	<30			<45	
Storage temperature [°C]	-40 ~ +65				
Dimensions [WxHxD] [mm]	482x417x181				
Net Weight [kg]	23				
Cooling concept	Natural cooling			Smart cooling	
Communication interfaces	CT/Meter (optional), External control RS485, Pocket series (optional), DRM, USB Upgrade				
POWER CONSUMPTION					
Internal consumption (night) [W]	<17W for standby, <2.7W for idle				
STANDARD					
Safety	EN/IEC62109-1/-2				
EMC	EN61000-6-1/2/3/4, EN61000-3-2/3/11/12				
Certification	VDE4105, G99, G98, AS4777, EN50549, CEI 0-21, IEC61727, C10/11				

*V2.5. Information may be subject to modify without notice.650.00018.00

X1-AC

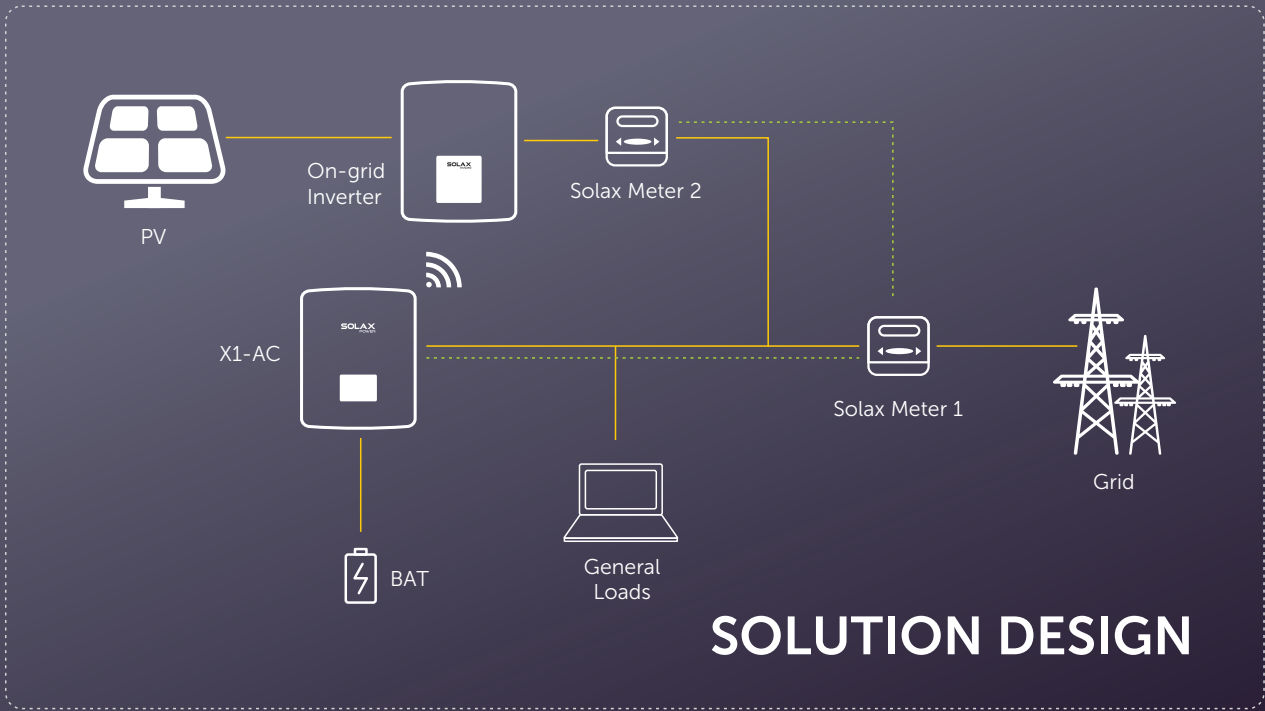
SINGLE-PHASE
AC COUPLED HYBRID INVERTER

3.0~5.0kW



Features

- Natural cooling, quiet and low maintenance
- Max efficiency up to 97%
- Multiple protection: RCD, isolation, over voltage over temperature, earth protection, short-circuit protection, etc
- Compatible with High-voltage batteries
- Transformerless design with software and hardware protection.



X1-AC

SINGLE-PHASE

	X1-AC-3.0	X1-AC-3.6	X1-AC-4.6	X1-AC-5.0
AC INPUT & OUTPUT				
Nominal AC output power [W]	3000	3680	4600	4999
Nominal AC output current [A]	13	16	20	21.7
Max. AC output apparent power [VA]	3000	3680	4600	4999
Max. AC output current [A]	13.6	16.8(16 for G98)	21	21.7
Max. AC input apparent power [VA]	3000	3680	4600	4999
Max. AC input current [A]	13.6	16.8(16 for G98)	21	21.7
Nominal AC voltage [V]	220/230/240 (180 - 280)			
Nominal grid frequency/Grid frequency range [Hz]	50/60			
Displacement power factor	0.8 leading~0.8 lagging			
THDi (rated power) [%]	<2			
BATTERY DATA				
Battery type	Li-ion battery /Lead-acid battery			
Battery voltage range [V]	70~400			
Max.continuous charge/discharge current [A]	35			
SAFETY & PROTECTION				
Over/under voltage protection	YES			
DC isolation protection	YES			
Grid protection	YES			
DC injection monitoring	YES			
Residual current detection	YES			
Anti-islanding protection	YES			
SYSTEM DATA				
Max. efficiency [%]	96.5		97.0	
Battery charge/discharge efficiency [%]	96.5		97.0	
Degree of protection	IP 65			
Operating temperature range [°C]	-25 ~ +60 (derating at 45)			
Max. operation altitude [m]	<2000			
Humidity [%]	0~100			
Typical noise emission [dB]	<25			
Storage temperature [°C]	-25 ~ +60			
Dimensions(WxHxD) [mm]	430*341.5*143			
Net weight [kg]	15.5	15.5	16.3	16.3
Cooling concept	Nature cooling			
Communication interfaces	Meter/Pocket Wi-Fi(optional)/Pocket LAN(optional)/Pocket GPRS(optional)/RS485/DRM/USB/CT			
STANDARD				
Safety	IEC62477			
EMC	EN 61000-6-1 / EN 61000-6-2 / EN 61000-6-3 / EN 61000-6-4			
Certification	G98/G99/G100			

X3-FIT G4

THREE-PHASE
AC COUPLED HYBRID INVERTER
6.0~15kW



Features

High-efficient

- Up to 110% AC overload output
- Higher efficiency on charging and discharging, up to 98.5%

Economic

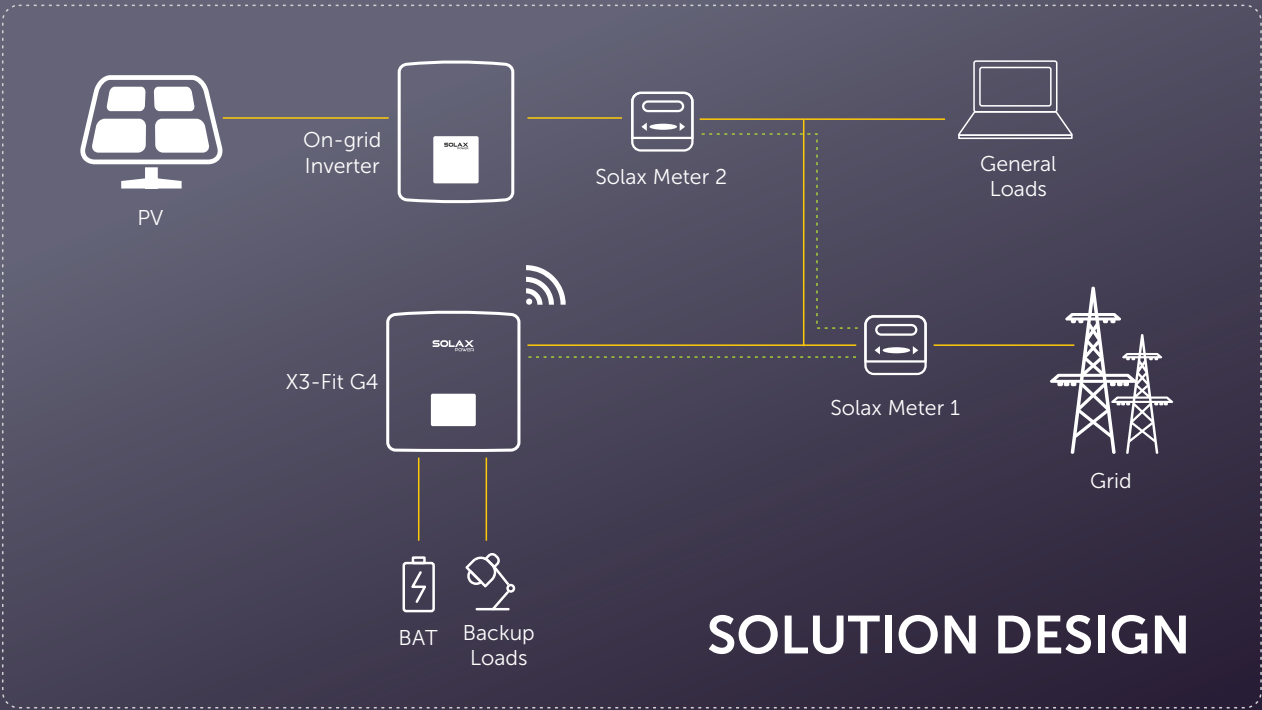
- Store the surplus energy to battery
- Less energy loss on battery to inverter

Safe

- IP65 protection level
- Integrated SPD

Intelligent

- Up to 150% EPS output for 60s
- Switchover time <10ms
- Quick configuration with U-disk
- Lithium-ion & Lead-acid battery compatible
- Intelligent loads management (e.g., Heat pump)
- On & Off-grid parallel function, up to 150kW
- 5 work modes, 2 charging periods available
- VPP ready, ancillary service in power market
- Three-phase unbalanced output Maximum 5kW output power on single phase at most



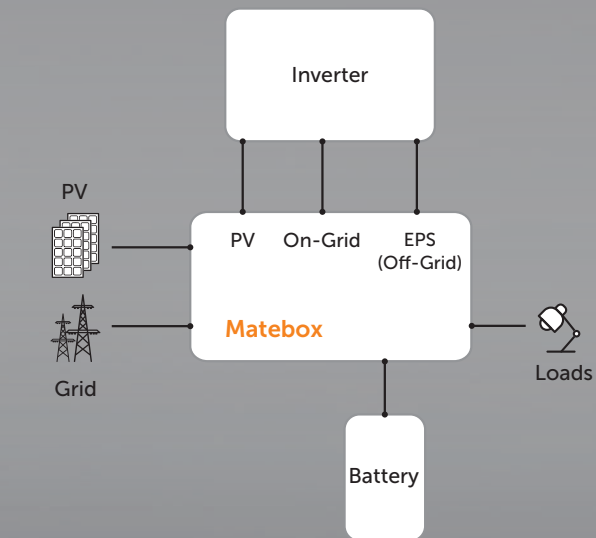
SOLUTION DESIGN

X3-FIT G4

THREE-PHASE

	X3-FIT-6.0-W	X3-FIT-8.0-W	X3-FIT-10.0-W	X3-FIT-15.0-W
AC INPUT & OUTPUT				
Nominal AC output power [W]	6000	8000	10000	15000
Max. AC output apparent power [VA]	6600	8800	11000	15000
Max. AC output current [A]	9.7	12.9	16.1	24.1
Max. AC input apparent power [VA]	12000	16000	20000	20000
Max. AC input current [A]	19.3	25.8	32	32
Nominal AC voltage [V]	380 / 220; 400 / 230; 415 / 240			
Nominal grid frequency [Hz]	50 / 60			
Displacement power factor	0.8 leading ~ 0.8 lagging			
THDi (rated power) [%]	<3			
BATTERY DATA				
Battery type	Lithium-ion battery / Lead-acid Battery			
Battery voltage range [V]	180 ~ 800			
Max. continuous charge/discharge current [A]	30			
EPS(OFF-GRID OR BACK-UP) OUTPUT (WITH BATTERY)				
Nominal output power [W]	6000	8000	10000	15000
Peak apparent power [VA,s]	9000,60	12000,60	15000,60	16500,60
Max.continuous current [A]	8.7	11.6	14.5	21.8
Nominal voltage [V]; Frequency [Hz]	400 / 230; 50 / 60			
Switch time [ms]	<10			
Parallel operation	YES			
SYSTEM DATA				
Max. efficiency [%]	98.0			
Euro. efficiency [%]	97.7			
Battery charge/discharge efficiency [%]	98.5 / 97.5			
Degree of protection	IP65			
Operating temperature range [°C]	-35 ~ +60 (Derating above +45)			
Max. operation altitude [m]	<3000			
Relative humidity [%]	0 ~ 100			
Typical noise emission [dB]	<35	<35	<45	<45
Storage temperature [°C]	-40 ~ +70			
Dimensions (WxHxD) [mm]	503x503x199			
Net weight [kg]	30			
Cooling concept	Natural cooling	Natural cooling	Nature cooling	Smart cooling
Communication interfaces	Meter (optional), External control RS485, Pocket WiFi (Optional: Pocket Lan/4G), DRM, USB Upgrade, NTC (optional)			
POWER CONSUMPTION				
Internal consumption (night) [W]	<40W for standy, <5W for idle			
STANDARD				
Safety	EN / IEC62109-1/-2			
EMC	EN61000-6-1/2/3/4;EN61000-3-2/3/11/12			
Certification	VDE4105, G99, G98, AS4777, EN50549, CEI 0-21, IEC61727, PEA / MEA, NRS-097-2-1, RD1699, TOR			

*V2.5. Information may be subject to modify without notice.650.00019.00



MATEBOX

For the new X-ESS G4, we get rid of the complicated wiring work by laying all the wires in the Matebox. All you need to do is just to install one module on the top of another, and connect all the cables which are already well-sorted in the Matebox in different ports.

PV	
Max. input voltage [Vdc]	600
Max. short circuit current (A/B) [A]	18/18
BATTERY	
Battery voltage range [V]	80-480
Max. charge/discharge current [A]	30
ON-GRID(Inverter)	
Rated voltage [Vac], frequency [Hz]	220/230/240, 50/60
Max. on-grid current [A]	32.6
OFF-GRID(Inverter)	
Rated voltage [Vac], frequency [Hz]	230, 50/60
Rated current [A]	32.6
GRID(Utility)	
Rated grid voltage [Vac], frequency [Hz]	220/230/240, 50/60
Max. input current [A]	60
LOAD	
Rated voltage [Vac], frequency [Hz]	220/230/240, 50/60
Max. current [A]	60
ENVIRONMENT LIMIT	
Degree of protection	IP54
Protection class	Class I
Operating temperature range [°C]	-25~+60°C (Derating above +45°C)
Storage temperature [°C]	-40~+70°C
Relative humidity [%]	0~100 (condensing)
Altitude[m]	<3000
Overvoltage category	III(AC), II(DC)
OTHER	
Cooling concept	Nature cooling
DIMENSION AND WEIGHT	
Dimensions [mm]	482×437×185
Net weight [kg]	10.5

X1-MATEBOX



X3-MATEBOX BASIC



PV	
Max. input voltage [Vdc]	1000
Max. short circuit current (A/B)[A]	30/18
BATTERY	
Battery voltage range [V]	180~650
Max. charge/discharge current [A]	30
ON-GRID (Inverter)	
Rated voltage[Vac], frequency [Hz]	380/400/415, 50/60
Max. Grid (INV) input/output current [A]	32/32
OFF-GRID (Inverter)	
Rated voltage [Vac], frequency [Hz]	380/400/415, 50/60
Max. current [A]	24.1
GRID (Utility)	
Rated grid voltage [Vac], frequency [Hz]	380/400/415, 50/60
Max. input/output current [A]	32/32
LOAD	
Rated voltage[Vac], frequency [Hz]	380/400/415, 50/60
Max. current [A]	24.1
ENVIRONMENT LIMIT	
Degree of protection	IP54
Protection class	Class I
Operating temperature range [°C]	-25~+60°C (Derating above +45°C)
Storage temperature [°C]	-40~+70°C
Relative humidity [%]	0~100
Altitude [m]	<3000
Overvoltage category	III(AC), II(DC)
OTHER	
Cooling concept	Nature cooling
DIMENSION AND WEIGHT	
Dimensions [mm]	533×397×204
Net weight [kg]	7.5

X3-MATEBOX ADVANCED



PV	
Max. input voltage [Vdc]	1000
Max. short circuit current (A/B) [A]	30/18
BATTERY	
Battery voltage range [V]	180~650
Max. charge/discharge current [A]	30
ON-GRID (Inverter)	
Rated voltage[Vac], frequency [Hz]	380/400/415, 50/60
Max. Grid (INV) input/output current [A]	24.1/24.1
OFF-GRID (Inverter)	
Rated voltage [Vac], frequency [Hz]	380/400/415, 50/60
Max. current [A]	24.1
GRID (Utility)	
Rated grid voltage [Vac], frequency [Hz]	380/400/415, 50/60
Max. input/output current [A]	63/24.1
LOAD	
Rated voltage [Vac], frequency [Hz]	380/400/415, 50/60
Max. current [A]	63
ENVIRONMENT LIMIT	
Degree of protection	IP54
Protection class	Class I
Operating temperature range [°C]	-25~+60°C (Derating above +45°C)
Storage temperature [°C]	-40~+70°C
Relative humidity [%]	0~100
Altitude [m]	<3000
Overvoltage category	III (AC), II (DC)
OTHER	
Cooling concept	Nature cooling
DIMENSION AND WEIGHT	
Dimensions [mm]	551x512x204
Net weight [kg]	14.5



TRIPLE POWER 3.0 BATTERY

- Systematic design, in-depth optimization and seamless connection with Solax Hybrid inverter
- Unique battery heating technology, which is capable to work at low temperature^①
- Safe type of LiFePO₄ battery, an adoption of high-performance processors
- Modular stacking design, easy installation, supporting floor mounting
- Auto power replenishment technology is adopted to prevent battery over-discharge
- IP65, supporting indoor and outdoor installation
- Remote fault diagnosis, upgrade and maintenance
- Multiple communication interfaces: RS485, CAN
- International brand devices, better stability
- Long life cycle, more than 6000 times
- Safety Cert. TUV, CE, UN38.3 and so on

MC0600 →

HV10230 →



① With Hybrid G4 inverter

	T-BAT H 3.0	T-BAT H 6.0	T-BAT H 9.0	T-BAT H 12.0
Nominal voltage [V]	102.4	204.8	307.2	409.6
Operating voltage range [V]	90 ~ 116	180 ~ 232	270 ~ 348	360 ~ 464
Total energy [kWh]	3.0	6.1	9.2	12.2
Usable energy ^① [kWh]	2.8	5.5	8.3	11.0
Rated capacity [Ah]	30			
Nominal power [kW]	2.5	5.1	7.6	10.2
Max. power [kW]	3.1	6.1	9.2	12.3
Recommend charge / discharge current [A]	25			
Max. charge / discharge current [A] ^②	30			
Battery roundtrip efficiency	95%			
Cycle life [90% DOD]	6000 Cycles			
Expected life time / W arranty [year]	10			
Available charge / discharge temperature range [°C]	-30 to 50			
Storage temperature [°C]	-20 to 50 (3 months)			
Relative humidity [%]	0 ~ 100			
Altitude [m]	Below 3000			
Degree of protection	IP65			
Battery to Inverter	RS485 / CAN2.0			
Battery to battery / BMS	CAN2.0			
Master control capacity indicator	4 LED (25%, 50%, 75%, 100%)			
Master control LED indicator (Working mode)	1 LED			
System switch (on / off)	Button×1+Breaker×1			
Certificate	CE, IEC62619, UN38.3, IEC62040, UKCA			
Hazardous materials classification	Class 9			
Dimensions (W×H×D) [mm]	MC0600: 482.5×173.5×153 HV10230: 482.5×471.5×153			
Net weight [kg]	MC0600: 7.5 kg +HV10230: 34.5 kg	MC0600: 7.5 kg +2xHV10230: 69 kg	MC0600: 7.5 kg +3xHV10230: 103.5 kg	MC0600: 7.5 kg +4xHV10230: 138 kg

①Test conditions: 90% DOD, 0.2C charger & discharger @+25 °C

②Max. charge / discharge current may be variant with different inverter models

V2.2. Information may be subject to modify without notice.
650.00011.00



T-BAT SYS-HV

- Safest LiFePO₄ battery
- 90% DOD
- Cycle life>6000 times
- IP65 protection level
- Floor or wall mounting
- Less self consumption
- Quick installation
- No toxic heavy metals or caustic materials



V1



V2

	T-BAT H 5.8 T-BAT H 5.8 V2	T-BAT H 11.5 T-BAT H 11.5 V2	T-BAT H 17.3 T-BAT H 17.3 V2	T-BAT H 23 T-BAT H 23 V2
Nominal Voltage [V]	115.2	230.4	345.6	460.8
Operating Voltage [V]	100-131	200-262	300-393	400-524
Battery Type	Li-ion (LFP)	Li-ion (LFP)	Li-ion (LFP)	Li-ion (LFP)
Total Capacity [kWh]	5.8	11.5	17.3	23.0
Usable Capacity ^[1] [kWh]	5.1	10.4	15.5	20.7
Faradic Charge Efficiency [%]	99	99	99	99
Battery Roundtrip Efficiency [%]	95	95	95	95
Standard Power [kW]	2.8	5.7	8.6	11.5
Max Power [kW]	4.0	8.0	12.0	16.1
Recommend Charge/Discharge Current [A]	25	25	25	25
Max Charge/Discharge Current [A]	35	35	35	35
Short Circuit Current[A]	760	760	760	760
Cycle Life	>6000 Cycles	>6000 Cycles	>6000 Cycles	>6000 Cycles
Warranty [Year]	10	10	10	10
Available Operating Temperature Range [°C]	0 to 55			
Full-load Operating Temperature Range [°C]	5 to 48			
Relative Humidity [%]	4 to 100 (condensing)			
Altitude [m]	Below 2000			
Protection	IP65			
System to Inverter	CAN2.0			
Battery to Battery/BMS	RS485			
Data Collection Port /FW UPDATE	CAN2.0			
Master Control Working Mode Indicator	1 LED			
Master Control Capacity Indicator	4LED (25%, 50%, 75%, 100%)			
Battery Module LED	2 LED			
Reset	Button			
Switch ON/OFF	Buttonx1 + breakerx1			
Safety	CE, RCM, IEC62619, UL1973, ROHS, REACH			
UN Number	UN3840			
Hazardous Materials Classification	Class 9			
Transport Testing Requirement	UN38.3			
Dimensions(LxWxH) [mm]	474x193x708	474x193x708+474x193x647	474x193x708+(474x193x647)x2	474x193x708+(474x193x647)x3
Weight [kg]	72.2	72.2+68.5	72.2+68.5x2	72.2+68.5x3

[1] Test conditions:90% DOD, 0.2C charger & discharger @+25°C

* X3 Hybrid inverter can connect 2-4pcs of T58 batteries(1pc of T58 master, and rest 1-3pcs of T58 slave).

* X1 Hybrid inverter can connect 1-3pcs of T58 batteries(1pc of T58 master, without T58 slave, or with 1-2pcs of T58 slave).

* With BMS Parallel Box-II, the maximum battery quantity connected on each inverter varies, please kindly check datasheet of BMS Parallel Box-II.

* Maximum Charge/Discharge Current may be variant with different inverter models

T-BAT-SYS-HV-R2.5

5.1kWh~33.2kWh

Features

- Safe LiFePO4 battery(50Ah)
- Stackable design with minima list style mounting racks (standard chassis)
- Long Cycle life > 6000 times
- Max.45A continuous charging and discharging current (inverter dependent)
- Easy and Fast for single person installation
- Extendable form 5kWh to 33kWh per stack
- Remote monitoring and upgrade
- Local data analysis via APP



T-BAT-SYS-HV-R2.5

System Parameters		
Voltage Range[V]	89.6-759.2	
Recommend Charge/Discharge Current [A]	30	
Max. Charge/Discharge Current [A]	45	
Available Charge/Discharge Temperature Range [°C]	Charge:0~50	Discharge:-20~50
Warranty [Years]	10	
Cycle Life [Cycles]	>6000	
System capacity[Batteries]	2-13	
Communication Interface	RS485, CAN	
Protection Class	IP20	
Cabinet Size (LxWxH) [mm](L-rail is required)	600×600×1166(22U)	1BMS+6Battery Modules
	600×600×2055(42U)	1BMS+13Battery Modules
Battery Module		
Model	TP-HR25	
Specification [Ah]	50	
Nominal Voltage [V]	51.2	
Operating Voltage [V]	44.8-58.4	
Battery Type	Li-ion (LFP)	
Total Energy [kWh]	2.56	
Usable Energy [1] [kWh]	2.3	
Faradic Charge Efficiency [%]	99	
Battery Roundtrip Efficiency [%]	95	
Nominal Power [kW]	1.2	
Dimensions (LxWxH) [mm]	442×391×130	
Weight [kg]	28	
BMS		
Model	TBMS-MCR0800	
Dimensions(LxWxH) [mm]	442×391×130	
Weight [kg]	8	

[1] Test conditions: 90% DOD, 0.2C charger & discharger @+25°C.

* The number of batteries that can be connected in series in a single string depends on the battery side voltage of the inverter, and the battery voltage needs to be calculated according to the maximum voltage of a single battery.

V3.6*Information may be subject to change without notice.650.00013.00

T-BAT-SYS-HV-R3.6

7.3kWh~47.9kWh

Features

- Safe LiFePO4 battery(72Ah)
- Stackable design with minima list style mounting racks (standard chassis)
- Long Cycle life > 6000 times
- Max.50A continuous charging and discharging current (inverter dependent)
- Easy and Fast for single person installation
- Extendable form 7.3kWh to 47.8kWh per stack
- Remote monitoring and upgrade
- Local data analysis via APP



T-BAT-SYS-HV-R3.6

System Parameters		
Voltage Range[V]	89.6-750	
Recommend Charge/Discharge Current [A]	35	
Max. Charge/Discharge Current [A]	50	
Available Charge/Discharge Temperature Range [°C]	Charge:0~50	Discharge:-20~50
Warranty [Years]	10	
Cycle Life [Cycles]	>6000	
System capacity[Batteries]	2-13	
Communication Interface	RS485, CAN	
Protection Class	IP20	
Cabinet Size(LxWxH) [mm](L-rail is required)	600×600×1166(22U)	1BMS+6Battery Modules
	600×600×2055(42U)	1BMS+13Battery Modules
Battery Module		
Model	TP-HR36	
Specification [Ah]	72	
Nominal Voltage [V]	51.2	
Operating Voltage [V]	44.8-58.4	
Battery Type	Li-ion (LFP)	
Total Energy [kWh]	3.68	
Usable Energy ^① [kWh]	3.31	
Faradic Charge Efficiency [%]	99	
Battery Roundtrip Efficiency [%]	95	
Nominal Power [kW]	1.7	
Dimensions(LxWxH) [mm]	442×391×130	
Weight [kg]	31	
BMS		
Model	TBMS-MCR0800	
Dimensions(LxWxH) [mm]	442×391×130	
Weight [kg]	8	

①: Test conditions:90% DOD, 0.2C charger & discharger @+25°C.

V3.1. Information may be subject to change without notice.650.00014.00

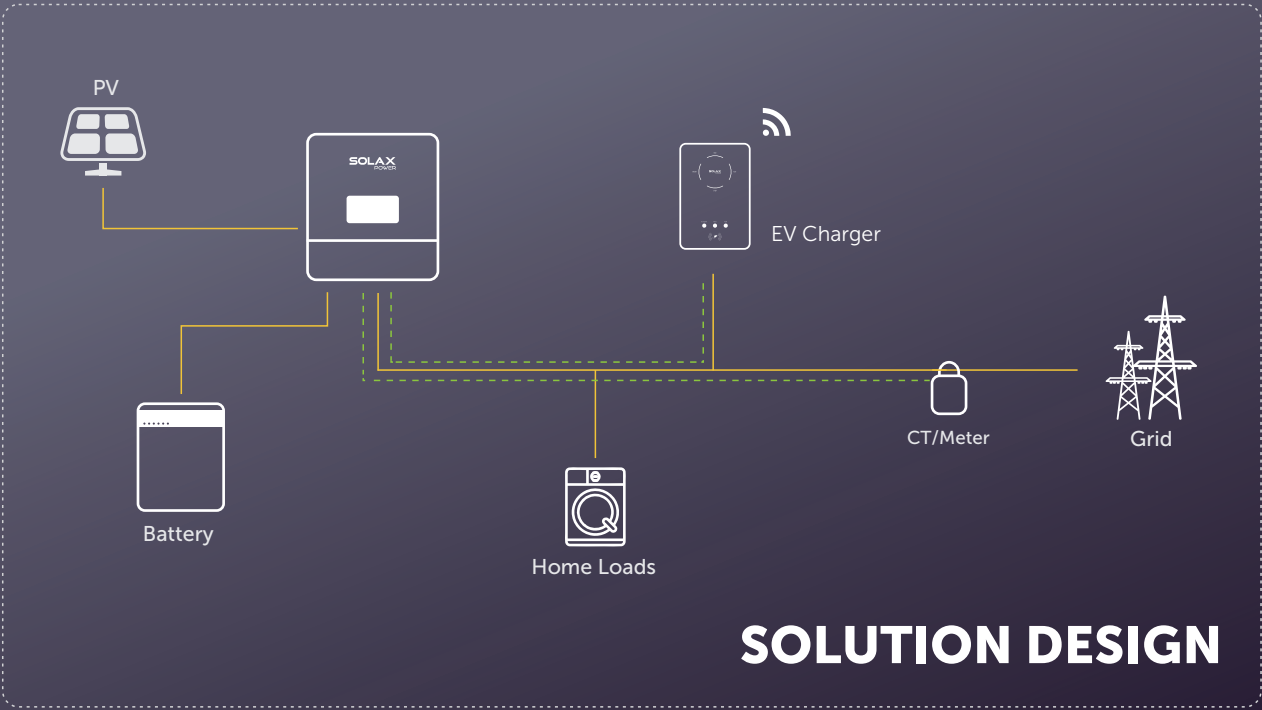
SMART EV CHARGER

X1-EVC-7.2K
X3-EVC-11K / X3-EVC-22K



Features

- Plug or socket outlet selectable
- Integrated current failure monitoring (30mA AC & 6mA DC)
- Integrated with PEN protection and no earth rod^①
- Encrypted communication based on TLS
- Indoor and outdoor easy installation
- Form an intelligent photovoltaic, storage and EV charging energy system through the communication between the smart EV charger and SolaX inverter.
- Capable with 100% green energy generated from your solar or wind generation.
- Integrated RFID function
- Remote setting and monitoring with APP and website
- Smart dynamic load balance control
- Set timers to reduce your cost during peak and valley price



SOLUTION DESIGN

SMART EV CHARGER

Specification	Model	X1-EVC-7.2K	X3-EVC-11K	X3-EVC-22K
AC Nominal Input	Phases/Lines	Single phase	Three phase	Three phase
	Voltage [V]	230; 1/N/PE	230/400; 3/N/PE	230/400; 3/N/PE
	Frequency [Hz]	50/60; ±5	50/60; ±5	50/60; ±5
AC Nominal Output	Voltage [V]	230; 1/N/PE	230/400; 3/N/PE	230/400; 3/N/PE
	Current [A]	32	16	32
	Power [kW]	7.2	11	22
Interface	Wireless Module		Wi-Fi 2.4GHz	
	RS485		YES	
	RFID		YES	
	OCPP 1.6 (JSON)		Optional	
	LCD Screen		Optional	
	CT Clamps	x1	x3	x3
General Data	Housing Material	Plastic/Metal		
	Installation Method	Wall-mount/ Pedestal-mount (Optional)		
	Wall-mount Bracket	Yes		
	Charging Outlet	Type P(Charging cable with plug)/Type S(Socket-outlet)		
	Cable Length [m]	6.5 (Type P)		
	Operating Temperature [°C]	-30 ~ 50		
	Working Humidity [%]	5%~95% without condensation		
	Working Altitude [m]	<2000		
	Degree of Protection	IP65		
	Impact Resistant	IK08		
	Application Site	Indoor/Outdoor		
	Cooling Concept	Natural cooling		
	Dimension(WxHxD) [mm]	249*370*155(for type S)/265*370*155(for type P)		
Security Protection	Net Weighth [kg]	7(for type S)/10.5(for type P)		
	Multiple Protection	Over/Under voltage protection,Overload protection,Shortcircuit protection, Current leakage protection,Grounding protection,Surge protection, Overtemperature protection		
	Integral Earth Leakage Protection	Integrated current failure monitoring (30mA AC & 6mA DC)		
	Built-in PEN fault technology ^①	According to BS 7671:2018 requirements		
ADVANCED FUNCTIONS	Safety Standard	IEC 61851-1:2017, IEC 62196-2:2016		
	Encrypted Communication	TLS		
	Certification	CE, UKCA, LVD, EMC, RED		
	Charging mode	Green Mode: The main purpose of Green mode is to charge the EV with PV energy as much as possible. The default level is 6A, in which the Smart EV Charger will never take electricity from the grid, while there is another 3A level, capable to purchase a little electricity from the grid but no more than 3A. In the Green mode, the minimum charging current is 6A. This work mode will spend all its effort to help clients reduce the cost of buying electricity from the grid. ECO Mode: ECO mode help users to charge their EV with a fixed power while the energy will also from the PV as much as possible. The gap will be supplied by the grid. The charging current can be set thus control the output power. For example, the users set the charging current 16A. If the current from the inverter is only 10A then the rest would be taken from the grid as 6A. If the current from the inverter is 18A, then the Smart EV Charger will output 18A. Fast Mode: Will charge the EV at the fastest rate and will import grid electricity if there is insufficient surplus generated power. The max charging power will be the minimum value of the rated power and the current grid limit power.		
Smart boost	Smart boost	With Smart Boost function, the Smart EV Charger will spend all its effort to use the PV energy as much as possible.		
	Smart boost	Users could set an "End Time" and "Charge Energy", the Smart EV Charger will automatically output the power according to the rest time and rest energy and this part of energy will be taken from PV, if any, in the first place.		
	Timer Boost	Users, when enable the "Timer Boost" function, are able to set a period of time, during which the Smart EV charger will charge the EV as fast as it can no matter in which work mode.		
Dynamic load balancing	Dynamic load balancing	Full dynamic load balancing allows you to charge as fast as possible at your charging mode, protects the main fuse and ensures that you can use your electricity whenever it's needed.		

① Only for chargers sold in the UK region
*V2.4. Information may be subject to modify without notice.650.00017.00

X3-EPS PARALLEL BOX G2

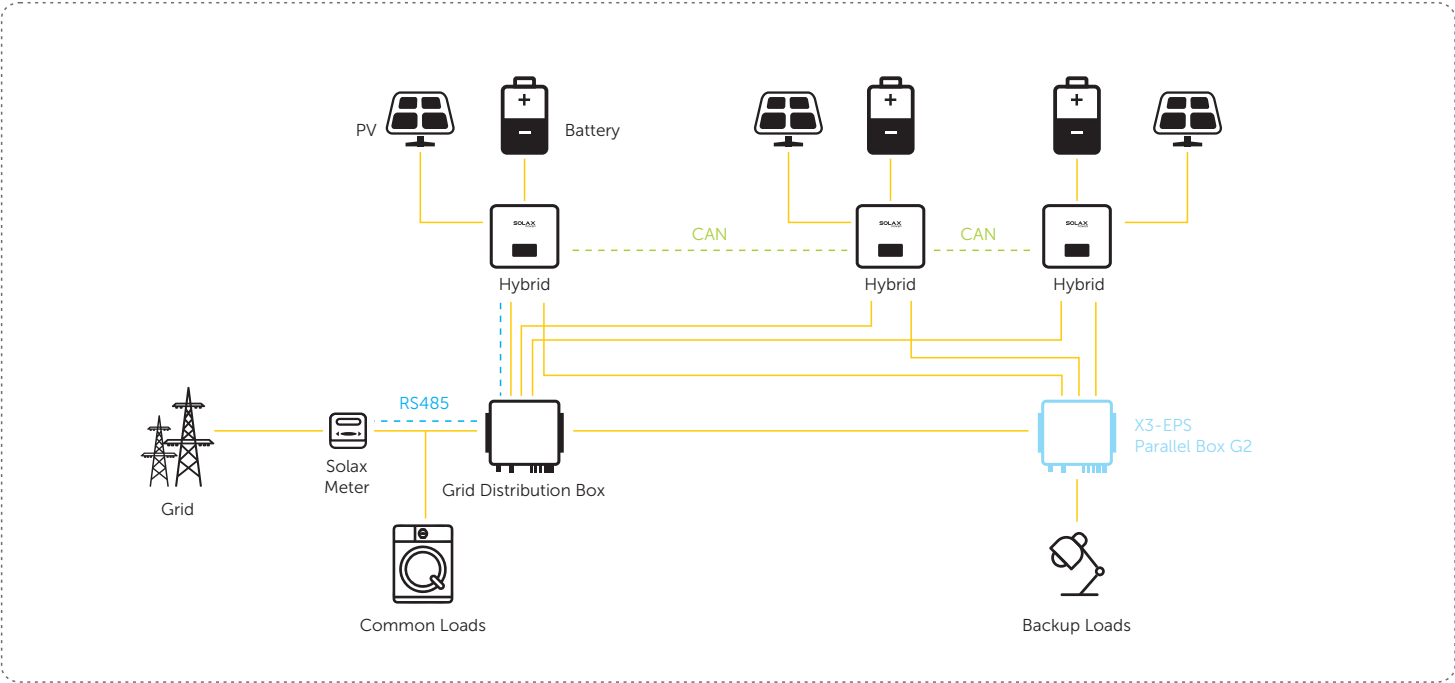
- Simple: Convenient wiring
- Reliable: Provide reliable backup power in parallel



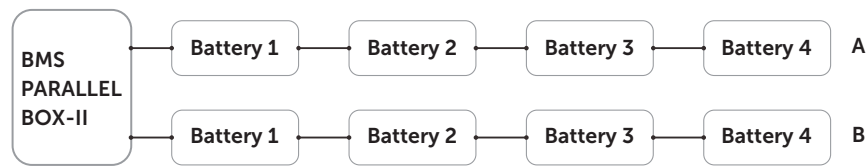
X3-PBOX-60kW-G2

X3-PBOX-150kW-G2

GRID (INVERTER)		
Grid connection	Three Phase	
Rated voltage	220/380V,230/400V,240/415V	
AC frequency	50/60Hz	
AC output voltage range	(198~253)/(342~40)V	
Maximum grid input current	87A	217A
EPS (INVERTER)		
Rated voltage	230/400VA	
EPS frequency	50/60Hz	
Compatible inverter	≤6	5~10
Maximum EPS input current per channel	21.7A	21.7A
Maximum EPS input current	87A	217A
LOAD (BACKUP)		
Load connection	Single Phase/Three Phase	
Rated voltage	220/380V,230/400V,240/415V	
AC frequency	50/60Hz	
Maximum apparent power	60kVA	150kVA
Maximum output current	87A	217A
Switchover time	<10s	
GENERAL SPECIFICATION		
Operating temperature range	-25°C to +40°C (-13°F to +104°F)	
Relative humidity range	0~100 (condensing)	
Dimensions (W x H x D)	492 x 478 x 183 mm (19.4 x 18.8 x 7.2 inch)	776 x 740 x 234 mm (30.6 x 29.1 x 9.2 inch)
Weight	17kg	41kg
Degree of protection	Ip65	



BMS-PARALLEL BOX-II



Features

BMS-Parallel Box-II is an revolutionary product that makes the capacity expansion of storage system possible. With the box, users are able to easily expand the number of T-BAT H 5.8 to 8 from 4 with X3-Hybrid series and to 6 from 3 with X1-Hybrid series. Besides, alternate using dual-module makes the life cycle of batteries longer and prevents the inverter from stopping working caused by the errors in one series.

ENVIRONMENT REQUIREMENT	
Operating charge/discharge temperature range [°C]	0 ~ 55
Full-load charge/discharge temperature range [°C]	5 ~ 48
Storage temperature [°C]	-20 ~ +55 (3 months) 0 ~ 40 (1 year)
Humidity [%]	0 ~ 100 (condensing)
Altitude [m]	≤ 2000
Degree of protection	IP55
COMMUNICATION	
System to inverter	CAN2.0/RS485
Battery to battery/BMS	RS485
Master control LED indicator working mode	3LED
Master control capacity indicator	2*4LED (25%, 50%, 75%, 100%)
Battery module LED	2 LED
Switch on/off	Button*1+breaker*1
CERTIFICATION	
Safety	IEC 62477-1, IEC 61439-1, IEC 61439-2
EMC	IEC 61000-6-1/2/3/4
Transportation regulation compliance	UN38.3
GENERAL	
Dimensions (L x W x H) [mm]	368*310*140
Net weight [kg]	5.2
Expected life [years]	5
NOMINAL CHARACTER (Battery Pack)	
	T-BAT S 5.8 T-BAT S 11.5 T-BAT S 17.3 T-BAT S 23.0 T-BAT P 5.8 T-BAT P 11.5 T-BAT P 17.3 T-BAT P 23.0
Nominal voltage [V]	115.2 230.4 345.6 460.8 115.2 230.4 345.6 460.8
Operating voltage [V]	100-131 200-262 300-393 400-524 100-131 200-262 300-393 400-524
Total energy [kWh]	5.8 11.5 17.3 23 11.5 23 34.6 46.1
Standard power [kW]	2.9 5.8 8.7 11.6 2.9 5.8 8.7 11.6
Max. power [kW]	4.0 8.0 12.0 16.0 4.0 8.0 12.0 16.0
Pollution degree	PD3
Overvoltage category (OVC)	II
Protective class	I
Recommend charge/discharge current [A]	25
Max. charge/discharge current [A]	35
Cycle life [90% DOD]	6000 Cycles

Note:BMS/Master Battery is no longer necessary
X1-Hybrid can be connected to 6 batteries at most. X3-Hybrid can be connected to 8 batteries at most.



REMOTE MONITORING AROUND THE CLOCK

SOLAX CLOUD MONITORING

Feature

- Local & Remote monitoring, setting and upgrade of batch inverters
- Intelligent export control, DRM control, ripple control and etc. of batch inverters
- Support large-capacity data storage
- Support IEC104 protocol



DataHub1000

Product Name	DataHub
Model	DataHub1000
Power Adapter	100-240V 50/60HZ 1.5A AC input 12V 2A DC output
Wireless Module	Wi-Fi 2.4GHz
Ethernet	10/100M
Manage Device Quantity	60
Interface	RS485*4, CAN*1, Ethernet*1
Dry Contactor	AJ*2, DI*4, DO*4
Data Transfer Interval	5 mins
Expanded Storage Capacity	8G/16G TF card (Optional)
Dimensions	205*124*33 mm
Weight	440±10g
Degree of Protection	IP21
Operating Temperature Range	-20°C ~ +60°C

SOLAX CLOUD MONITORING

Pocket WiFi V3.0-P



Feature

- Quick installation with "Plug & Play" function
- IP 65 dust prevention water proofing designs
- Stable data transmission and good reliability
- Offline data storage and resuming
- Multiple antenna adaptations according to the situation
- 10 second live data monitoring
- Modbus TCP support
- IEEE2030.5 support

Product Name	Pocket LAN
Model	Pocket WiFi+LAN
Power Supply	5V 200mA DC
Wireless Module	WiFi 2.4 GHz
Ethernet	10/100 M
Antenna Gain	3 dBi
Data Transfer Interval	5 mins
Dimensions	112*45.7*28.5 mm
Weight	80±10 g
Degree of Protection	IP65
Operating Temperature Range	-35°C ~ +60°C

Pocket WiFi+LAN



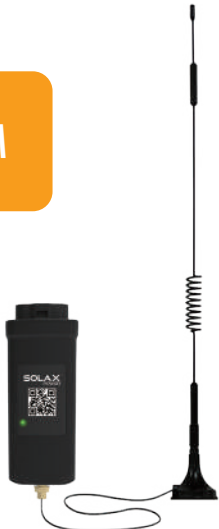
Feature

- Quick installation with "Plug & Play" function
- IP 65 dust prevention water proofing designs
- Stable data transmission and good reliability
- Offline data storage and resuming
- 10 second live data monitoring
- Modbus TCP support
- IEEE2030.5 support

Pocket WiFi+4GM

Feature

- Quick installation with "Plug & Play" function
- IP 65 dust prevention water proofing designs
- Stable data transmission and good reliability
- Offline data storage and resuming
- Multi-communication operator support
- 10 second live data monitoring
- Modbus TCP support
- IEEE2030.5 support



*V1.1. Information may be subject to modify without notice.650.00016.00

Product Name	Pocket 4G
Model	Pocket WiFi+4GM
Power Supply	5V 200mA DC
Wireless Module	WiFi 2.4 GHz
Antenna Gain	3 dBi
SIM Card Size	Nano - 4FF 12.3*8.8 mm
Support Band	LTE-FDD: Cat M1: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/ B20/B25/B26/B27/B28/B66/B85 Cat NB2: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/ B20/B25/B28/B66/B71/B85
Data Transfer Interval	5 mins
Dimensions	112*45.7*28.5 mm
Weight	124±10 g
Degree of Protection	IP65
Operating Temperature Range	-35°C ~ +60°C

ENERGY METER

DDSU666 5(80)A
DTSU666 5(80)A
DDSU666-CT 200A/5A
DTSU666-CT 200A/5A



Features

Accurate

- Class 1 measurement accuracy

Convenience

- Optional 35mm DIN rail or front mounting

Safe & Reliable

- Fuse-free design for superior safety
- International authoritative certification, more reliable
- Natural cooling fully sealed design for better reliability

Energy Saving

- Overall power consumption ≤ 1 W

Smart Energy

- Use clean, efficient renewable energy without pollution.
- Green and low carbon, saving economy, sustainable development

Smart Monitoring

- One terminal can control multiple devices, and perform parameter monitoring and fault query



DDSU666
5(80)A



DTSU666
5(80)A



DDSU666-CT
200A/5A



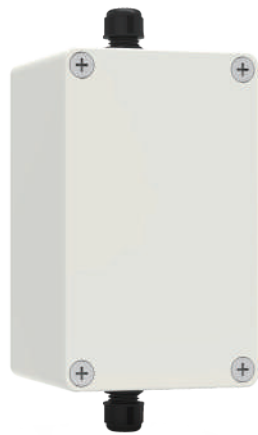
DTSU666-CT
200A/5A

General Data				
Dimension (H xW xD)	100 x 36 x 65.5 mm (3.9 x 1.4 x 2.6 inch)	100 x 72 x 65.5 mm (3.9 x 2.8 x 2.6 inch)	100 x 36 x 65.5 mm (3.9 x 1.4 x 2.6 inch)	100 x 72 x 65.5 mm (3.9 x 2.8 x 2.6 inch)
Mounting type	DIN35 Rail			
Weight (including cables)	1.2 kg (2.6 lb)	1.5 kg (3.3 lb)	1.2 kg (2.6 lb)	1.5 kg (3.3 lb)
Power Supply				
Power grid type	1P2W	3P4W/3P3W	1P2W	3P4W/3P3W
Input voltage (phase voltage)	184Vac ~ 264.5Vac	154 Vac ~ 286 Vac	184Vac ~ 264.5Vac	154 Vac ~ 286 Vac
Power consumption	≤1 W	≤1.5 W	≤1 W	≤1.5 W
Measurement Range				
Line voltage	/	290.5 Vac~ 539.5 Vac	/	290.5 Vac~ 539.5 Vac
Phase voltage	184Vac ~ 264.5Vac	168 Vac ~ 312 Vac	184Vac ~ 264.5Vac	168 Vac ~ 312 Vac
Current	0.25-5(80)A	0.25-5(80)A	0.015-1.5(6)A (CT: 200A)	0.015-1.5(6)A (CT: 200A)
Measurement Accuracy				
Accuracy Class	Class B	Class B	Class C	Class C
Communication				
Interface	RS485			
Baud rate	9,600 bps			
Communication protocol	Modbus-RTU			
Environment				
Operating temperature range	-25oC~+55oC	-10°C~+45°C	-25°C~+55°C	-10°C~+45°C
Storage temperature range	-25oC~+55oC	-25°C~+75°C	-25°C~+55°C	-25°C~+75°C
Operating humidity	<75 % non condensing			
Others				
Accessories	/	RS485 Cable (10 m / 33 ft.), RJ45 connector	1 CT 200A/5A (1m)	3 CT 200A/5A (1m)

CT OPTIONAL

Model	LCTA97C2	LCTA97C4	ESCT-B812
Ratio	200A/5A	600A/5A	1500A/5A

*V1.2. Information may be subject to modify without notice.650.00033.00



ADAPTER BOX

Max. output voltage[V]	277
Max. output current[A]	5
Rated input voltage[V]	12
Degree of protection	IP65
Operating ambient temperature range [°C]	-25~60

SOLUTION DESIGN

DC AC RS485 Internet

