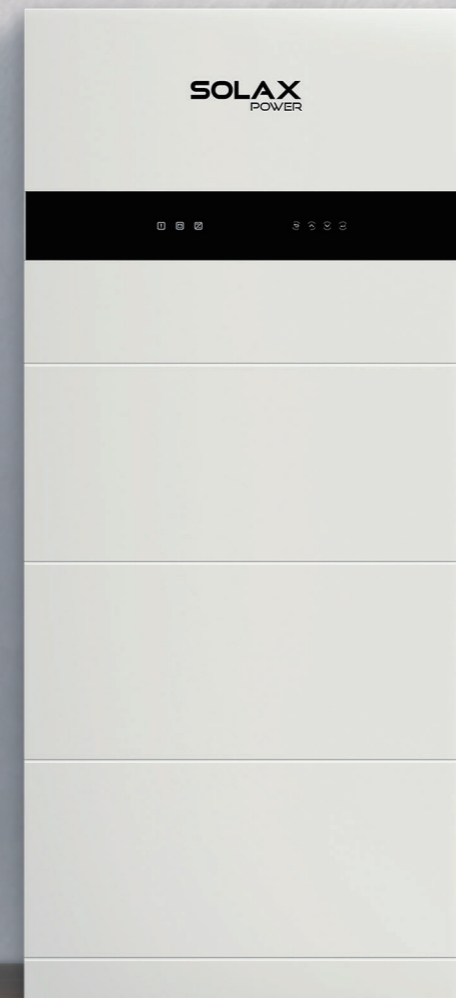




Solar
Optimal
Long Life-cycle
Accurate
Xtraordinary



*Can be modified without notice.(V2.3)
Exclusive for SolaX Power Australia

+61 1300 476529
www.solaxpower.com.au
support@solaxpower.com.au

Who We Are

SolaX Power was founded in 2012 and is committed to the field of smart energy, owning core products including PV inverters, energy storage inverters, energy storage batteries, energy storage systems, and EV chargers. To date, SolaX offers the most diversified product line globally and has the widest application scenarios. SolaX is the global leader in the field of energy storage solutions. SolaX is a hi-tech enterprise that integrates R&D, production, sales and service as one. SolaX has been authorized over 100 international patents since its establishment, including more than 30 invention patents. SolaX inverters have been granted more than 500 international certifications until now. At present, SolaX sells its products to more than 80 countries. SolaX 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 Asia's first hybrid inverter X-Hybrid energy storage inverter, and now it's 4th generation. SolaX is truly a leader in solar and energy storage industry.

INVESTORS Main Shareholders & Investors

SPIC
State Power Investment Corporation

- World's No.1 in renewable energy installed and generation capacity
- No.260 in Fortune Global 500 (2022)
- Revenue: 51 billion USD (2022)
- Total assets: 220 billion USD (2022)

CTGC
China Three Gorges Corporation

- World's largest hydropower development and operation company
- Annual power generation: 363 billion kWh (2021)
- Total assets: 160 billion USD (2021)

2012
ESTABLISHED

2013
ASIA'S FIRST
HYBRID INVERTER

80+
EXPORTING
COUNTRIES

500+
CERTIFICATIONS

100+
GLOBAL PATENTS

HANGZHOU
Focus on inverters and storage battery

SHENZHEN
Focus on US market ESS

SUZHOU
Focus on utility scale inverter

XI'AN
Focus on microinverters

2023



Global Supply Chain Quality
Outstanding Contribution Award

VDE-AR-N 4110 & 4120
certificate (X3-FORTH)

2021



reddot winner 2021



WORK
TIMELINE

2011

- First inverter delivered

2012

- SolaX Power Set up

2013

- Asia's 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 All Quality Matters Award
- X-ESS G4 reddot winner
- New subsidiary in Japan

2022

- Service setup in Brazil & South Africa
- EUPD TOP BRAND PV INVERTERS & STORAGE



WE SERVE GLOBALLY



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

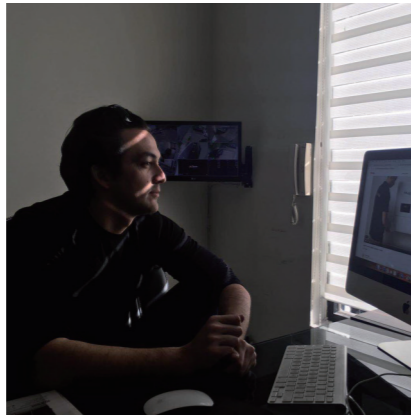
Training Support

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



SOLAX CLOUD

Everything you need to manage your power



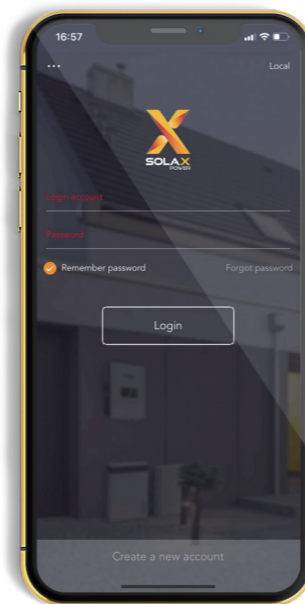
- All Platforms
- Monitor Usage
- Real-time Information
- Automatic Notifications
- Simple Interface

Control at your fingertips

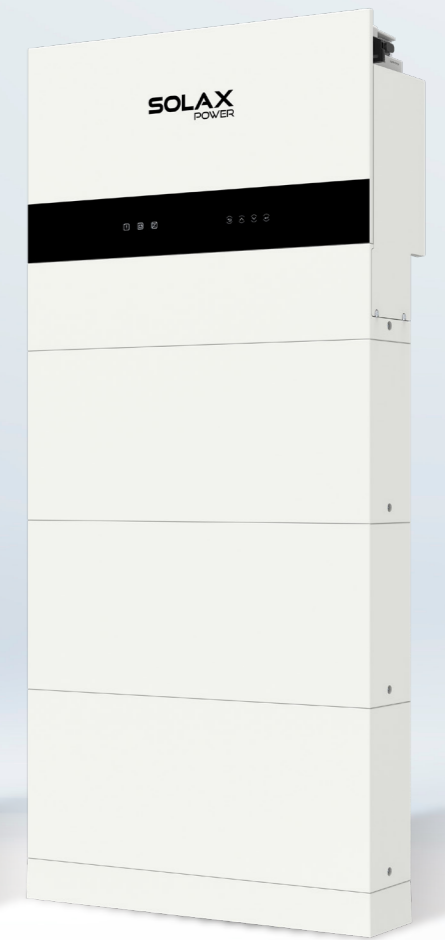
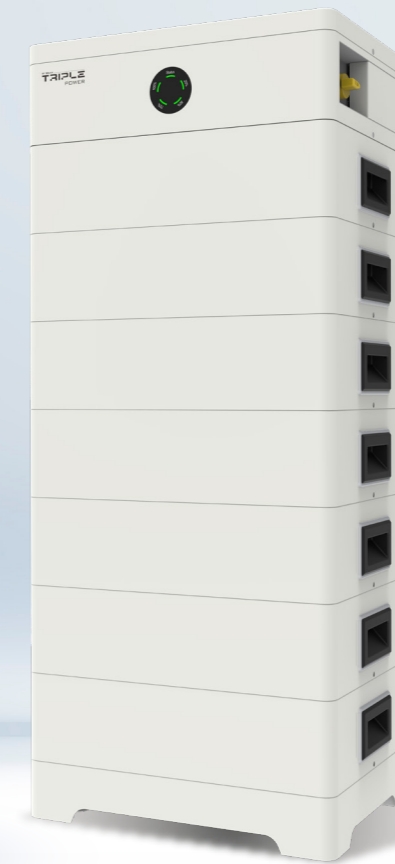
Use your smart devices to connect and control your energy



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 G4

SINGLE-PHASE
ON-GRID INVERTER

0.6~3.3kW



Features

Upgraded Performance

- DC Input: 200% oversizing, 16A current, ultra wide 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 Databus
- Extendable parallel solution via Modbus supported

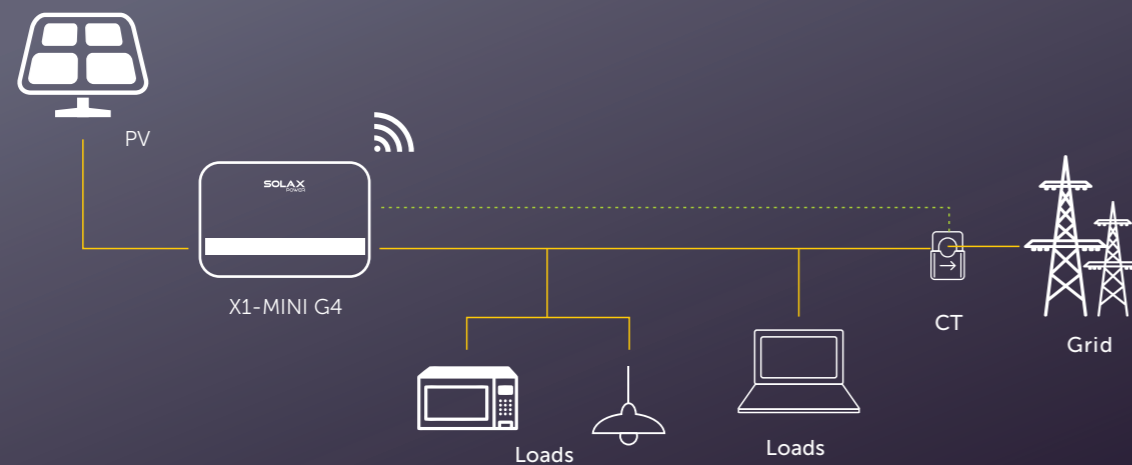
Advanced Safety

- 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, new WiFi dongle required)
- 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
Rated Apparent Power [VA]	600	700	1100	1500	2000	2500	3000	3300
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	Natural 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	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, VFR

* Not included in the package. Please purchase additionally.

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

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

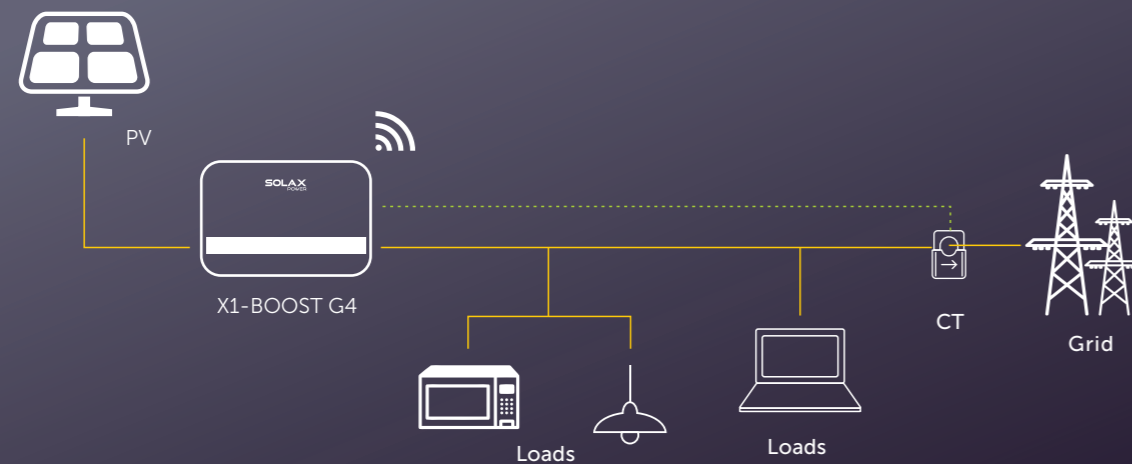
User Friendly Monitoring

- 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 apparent power (VA)	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 ^⑤	20.1	21.7 ^⑥	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 ^⑦						
Storage temperature [°C]	-30~70						
Dimensions (W x H x D) [mm]	404x274x146						
Weight [kg]	11						
Cooling concept	Natural 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	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, VFR, PPDS, TOR						

① 5000 (4600 for VDE4105, 4999 for AS4777.2) ② 5000 (4600 for VDE4105, 4999 for AS4777.2) 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.

Manufacturer: Solax Power Network Technology (Zhejiang) Co., Ltd.
Country of Origin: PR China

X1-SMART G2

SINGLE-PHASE
ON-GRID INVERTER
5~10kW



Features

Advanced performance

- 3 MPP trackers for multi-orientation installation
- Max. PV input current 20A compatible with advanced high-power panels
- 200% PV oversizing, and 110% AC overloading

Adaptable and Multifunctional

- Multiple units in parallel for larger system
- Global MPP scan to yield more
- Fast I-V curve scan and report for earlier panel issue diagnosis
- Home EV Charger and Heat Pump Solution adaptable

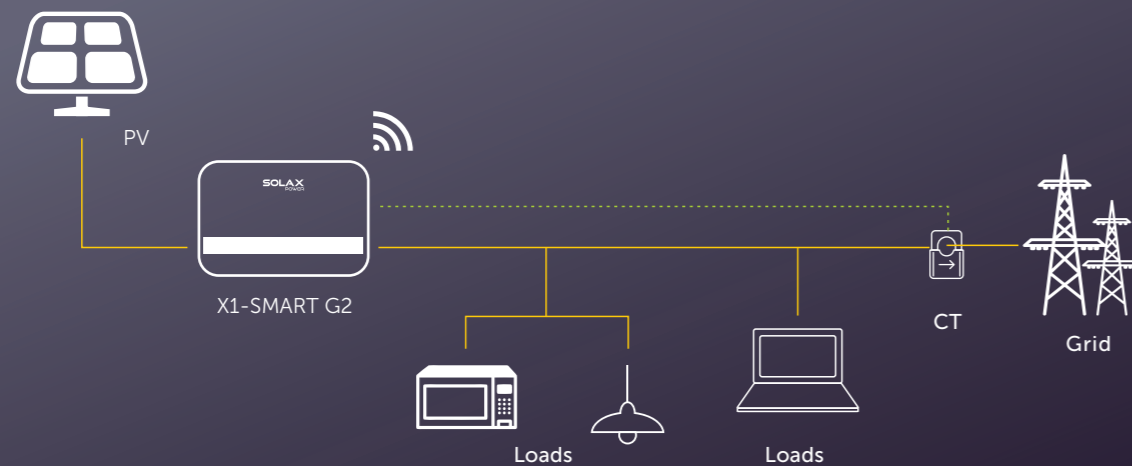
User-friendly O&M

- Super convenient and quick plug-play communication terminal
- Aluminum AC wires supported
- 10s data refresh interval with new Cloud interface
- 24h consumption monitoring

Robust safety protection

- Optional external RSD (Rapid Shut Down) and integrated DC AFCI protection (Optional)
- DC/AC both sides SPD2 protection (Optional modules to meet certification IEC/EN61643)
- Support 2030.5 and flexible control

SOLUTION DESIGN



X1-SMART G2

	X1-SMT-5K-G2	X1-SMT-6K-G2	X1-SMT-7K-G2	X1-SMT-8K-G2	X1-SMT-9K-G2	X1-SMT-10K-G2
DC INPUT						
Max. PV input power [Wp]	10000	12000	14000	16000	18000	20000
Max. PV input voltage [V]				600		
Start-up voltage [V]				50		
Nominal input voltage [V]				360		
MPPT voltage range [V]				40~560		
No. of MPP trackers / Strings per MPP tracker				3/1		
Max. PV input current[A]				20		
Max. input short circuit current Isc [A]				25		
AC OUTPUT						
Rated AC output power [W]	4999	6000	7000	8000	9000	9999
Max. AC output apparent power [VA]	4999	6600	7700	8800	9900	9999
Rated AC output current [A]	21.8	26.1	30.5	34.8	39.2	43.5
Max. AC output current [A]	22.8	30	35	40	45	45.5
Nominal AC voltage/Grid voltage range [V]				220/230/240; (90~290 V)		
Nominal grid frequency/Grid frequency range [Hz]				50/60; ±5		
Power Factor range				0.8 leading ~ 0.8 lagging		
THDi (Rated power) [%]				<3		
SYSTEM DATA						
Max. Efficiency [%]				98.2		
European weighted efficiency [%]				97.5		
Standby consumption (night) [W]				<3		
Ingress protection				IP66		
Operating ambient temperature range [°C]				-25~60		
Max. operating altitude [m]				4000		
Relative humidity [%]				0~100		
Typical noise emission [dB]				<30		
Dimensions(WxHxD) [mm]				515x370x170		
Net weight [kg]				19.5		
Cooling concept				Natural cooling		
Communication interfaces				RS485/DRM/USB/CT/Meter*		
Optional monitoring dongle				WiFi/LAN/4G/Wifi+LAN/Wifi+4G		
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		
Arc-fault circuit interrupter(AFCI)				Optional		
AC auxiliary power supply(APS)				Optional		
DC Switch				Yes		
STANDARD						
Safety				IEC/EN 62109-1/-2		
EMC				EN61000-6-1/2/3/4, EN61000-3-2/3/11/12		
Certification				AS 4777.2:2020, G99, INMETRO, IEC61727		

*Please refer to the actual delivery for the Meter and CT

* V1.0. Information may be subject to modify without notice.650.00059.00



X3-MIC G2

THREE-PHASE
ON-GRID INVERTER
5~8kW



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

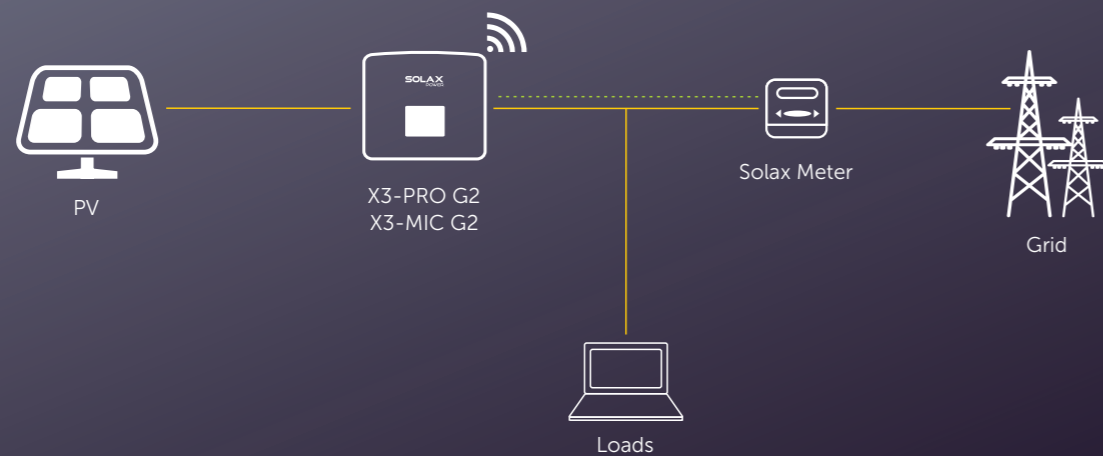
Smart

- 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-MIC G2 X3-PRO G2

THREE-PHASE

X3-MIC-5K-G2 X3-MIC-8K-G2 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]	10000	16000	12000	15000	18000	22500	25500	30000	37500	45000
Max. PV input voltage [V]	1000	1000	1100	1100	1100	1100	1100	1100	1100	1100
Start startup voltage [V]	150	150	200	200	200	200	200	200	200	200
Nominal input voltage [V]	640	640	650	650	650	650	650	650	650	650
MPP tracker voltage range [V]	120-980	120-980					160-980			
No. of MPP trackers	2	2	2	2	2	2	2	2	3	3
Strings per MPP tracker	1	1	2	2	2	2	2	2	2	2
Max. PV input current [A]	16	16	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]	20	20	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]	5000	8000	8000	10000 ^①	12000	15000	17000	20000	25000	30000 ^②
Rated AC output current [A]*	7.6/7.3	12.2/11.6	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]	5500	8800	8800	11000 ^①	13200	16500	18700	22000	27500	30000 ^②
Max. AC output current [A]	8.0	12.8	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 [%]	98.30	98.30	98.20	98.20	98.20	98.30	98.30	98.30	98.50	98.50
Euro efficiency [%]	97.80	97.80	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]	<30	<45	<35	<35	<35	<55	<55	<55	<55	<58
Storage temperature [°C]	-30~+60									
Dimensions (WxHxD) [mm]	342*434*144.5	342*434*156	482*417*181							
Weight [kg]	15.5	17	24.5				26		28	
Cooling concept	Natural cooling Smart fan cooling		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 III / Type III(Type II optional) 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

①9999 for AS4777.2 ②29999 for AS4777.2

*V2.4. Information may be subject to modify without notice. 650.00004.00 650.00003.00

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

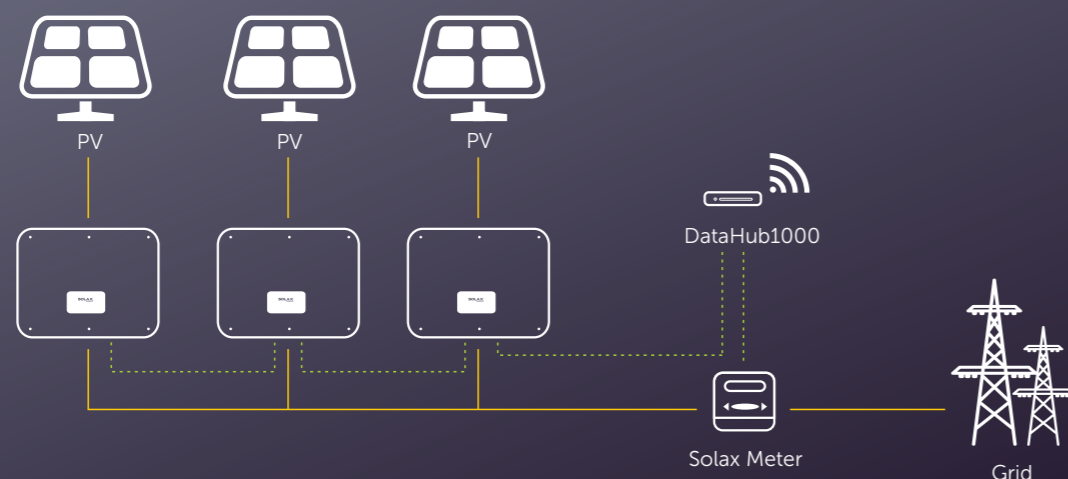
Safety & Reliability

- 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
- Current measuring for each of PV string
- 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

X3-MGA-40K-G2

X3-MGA-50K-G2

X3-MGA-60K-G2

DC INPUT

Max. PV array input power [kWp]	60	75	90
Max. PV input voltage [V]	1100		
Startup voltage [V]	200		
Nominal input voltage [V]	600		
MPP tracker voltage range [V]	180~1000		
No. of MPP trackers	4	5	6
Strings per MPP tracker	2	2	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]	40	50	60
Rated AC output current [A]*	60.6 / 58	75.8 / 72.5	90.9 / 87
Max. AC output apparent power [kVA]	44	55	66
Max. AC output current [A]*	66.7 / 63.8	83.3 / 79.7	100 / 95.7
Nominal AC voltage [V]	220/380V, 230/400V, 3/N/PE, 3/PE		
AC voltage range [V]**	304~460		
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 [%]	98.4
Euro. efficiency [%]	98.1
Standby consumption [W] @Night	<2
Ingress protection	IP66
Operating ambient temperature range [°C]	-30~+60
Max. operation altitude [m]	4000 (Derating above 3000)
Relative humidity [%]	0~100
Dimensions [WxHxD] [mm]	630*521*286
Weight [kg]	44 44.5 45.5
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
Over current 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
Over temperature protection	YES
SPD (DC/AC)	Type II / 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	EN/IEC 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

*V2.7. 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

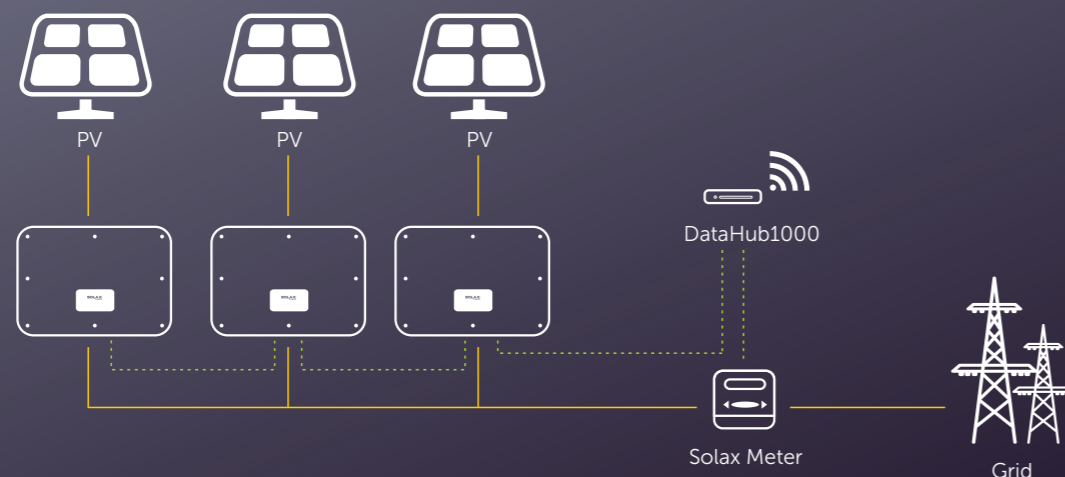
Safety & Reliability

- 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-75K 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	120	150	165	180	188	204	225
Max. PV input voltage [V]	1100							
Nominal input voltage [V]*	580/600	580/600	580/600	580/600	580/600	580/600	730/785	730/785
Startup voltage [V]	200							
MPP tracker voltage range [V]	180-1000							
No. of MPP trackers	9	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]	75	80	100	110	120	125	136	150
Rated AC output current [A]*	113.7/108.7	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]	75	88	110	121kW	132kW	132	149.6kW	165kW
Max. AC output current [A]*	113.7/108.7	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	
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

Max. Efficiency [%]	98.6	98.6	98.6	98.6	98.6	98.6	99.0	99.0
European weighted efficiency [%]	98.3						98.5	
Ingress protection	IP66							
Operating ambient temperature range [°C]	-25 ~ +60							
Max. operation altitude [m]	4000 (Derating above 3000)							
Relative humidity [%]	0 ~100							
Dimensions (WxHxD) [mm]	985*660*327.5							
Weight [kg]	83	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

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

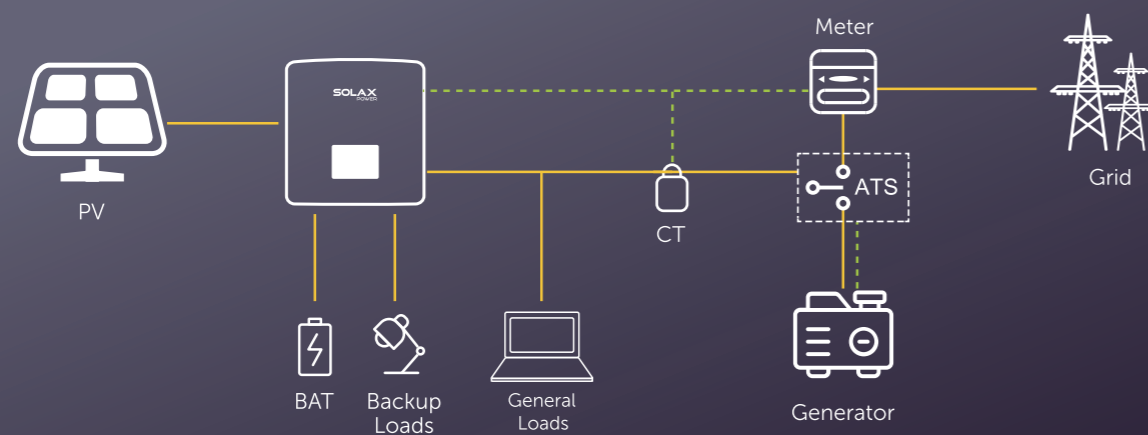
- 150% EPS output, 10s
- Switchover time <10ms
- Quick configuration with U-disk
- Lithium-ion & Lead-acid battery compatible
- CT compatible, loads respond within 0.3s
- Intelligent loads management (e.g., Heat pump, generator)
- On & Off-grid parallel function, up to 15kW
- 5 work modes, 2 charging 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 PV2) [A]	16/16	16/16	16/16	16/16	16/16	16/16
Max. short circuit current (input PV1/input PV2) [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]	6000, 10s	6000, 10s	6900, 10s	7500, 10s	9000, 10s	11250, 10s
Max. continuous 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]	482 x 417 x 181					
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					
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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. [Max. PV input power^① (PV1+PV2)* restriction takes precedence].
②: PV to BAT Max. efficiency 97.0%, BAT to AC Max. efficiency 97.0%.

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

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

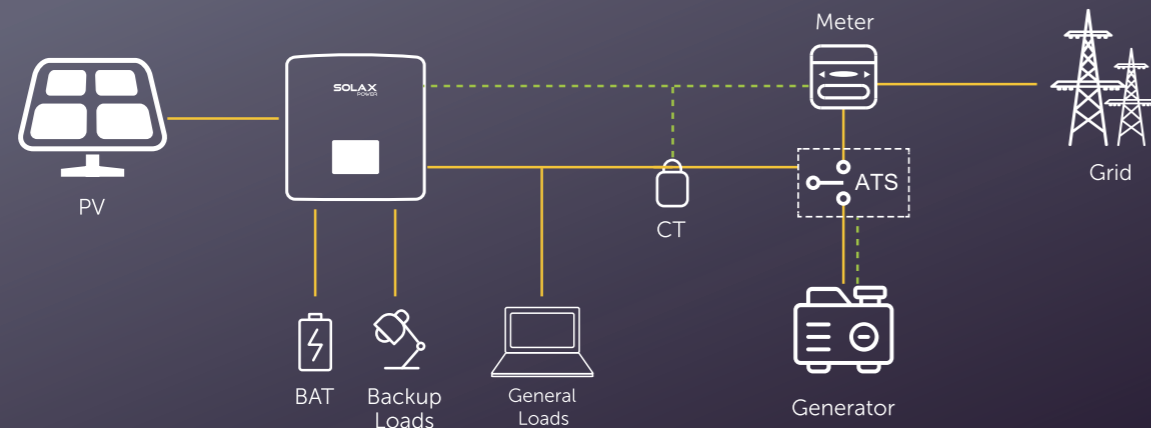
Intelligent

- 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, generator)
- 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-6.0-D X3-HYBRID-8.0-D X3-HYBRID-10.0-D X3-HYBRID-12.0-D X3-HYBRID-15.0-D

DC INPUT

Max. PV array power [Wp]	10000	12000	16000	20000	24000	30000
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]	12000, 10s	12000, 10s	18000, 10s	18000, 10s	22500, 10s	22500, 10s
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]	503 x 503 x 199
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
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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%.

V2.8. Information may be subject to modify without notice. 650.00010.00

X-IES



X-IES

X1-IES: 3kW/3.7kW/4.6kW/5kW/6kW/8kW

X3-IES: 5kW/6kW/8kW/10kW/12kW/15kW



INTRODUCTION

This is an integrated residential ESS which comes with a 3-15kW hybrid inverter and extensible battery modules, plug and play, capacity range from 5 to 30kWh. It has excellent performance in economy, safety and robustness. In addition, intelligent functions like VPP, micro-grid, smart schedule and smart scene are all ready. It would be the best choice for householders.

SolaX IES

Features

Economic

- All in one design, plug and play, expandable and installation easily
- Maximum 200% oversize and 200% PV input power
- Maximum 20A DC single string input current, support high power solar panel
- Low start output voltage makes inverter longer working time
- Built-in shadow tracking function
- Maximum Charge / Discharge Current up to 50A

Safe

- IP66 protection level
- AC&DC SPD type II, always guarding the inverter
- AFCI optional

Robust

- Robust back-up ability, switchover time <10ms(UPS level), up to 200% EPS output for 10s, support half-wave loads
- Battery heating technology, -30°C extreme environment operation

Intelligent

- AI ready, forecasting solar generation and home consumption, smart energy management strategy
- VPP ready, SolaX cloud support resource aggregator(IEEE 2030.5, OpenADR)
- Micro-grid ready, supporting real-time power balance between PCS and Hybrid in grid-connected and off-grid scenarios.
- Support smart scene function, intelligent loads management (e.g., Heat pump, EV charger)
- Support 7×24h scheduling mode
- Support Wireless meter solution

SINGLE PHASE SYSTEM OVERVIEW

System schematic



Rated output power [kW]	3 / 3.7 / 4.6 / 5 / 6 / 8			
Number of batteries	1	2	3	4
Nominal capacity [kWh] ^①	5.1	10.2	15.3	20.4
Usable energy [kWh] ^②	4.6	9.2	13.8	18.4
Max. charge/discharge power [kW] ^③	5.1	8	8	8
Degree of protection	IP66			
Operating temperature range [°C]	-30 to 53			
Allowable relative humidity range [%]	5-95 (No condensation)			
Max. operating altitude [m]	3000			
Net weight [kg] ^④	87.2	134.2	181.2	134.2 / 99.2
Dimension (W x H x D) [mm]	730 x 908 x 210	730 x 1226 x 210	730 x 1544 x 210	730 x 1226 x 210 / 730 x 809 x 150
Display	LCD			
Cooling concept	Natural cooling			
Topology	Transformerless			
Communication	RS485, Pocket-X, USB, CAN, DO, DI			

① Test conditions: 25°C, 100% depth of discharge (DoD), 0.2C charge & discharge.

② System usable energy may vary with inverter different setting.

③ The max.charge/discharge power must not exceed the rated output power (the table takes the maximum power inverter as an example).

④ Different inverter models have different weights. The heaviest one is taken as an example.

SPECIFICATIONS

	X1-IES-3K	X1-IES-3.7K	X1-IES-4.6K	X1-IES-5K	X1-IES-6K	X1-IES-8K
INPUT PV						
Max. recommended PV array power [Wp]	6000	7400	9200	10000	12000	16000
Max. DC voltage [V]	600					
Nominal DC operating voltage [V]	360					
Max. input current (input PV1 / input PV2 / input PV3) [A]	PV1: 20 / PV2: 20	PV1: 20 / PV2: 20	PV1: 20 / PV2: 20 / PV3: 20	PV1: 20 / PV2: 20 / PV3: 20	PV1: 20 / PV2: 20 / PV3: 20	PV1: 20 / PV2: 20 / PV3: 20
Max. short circuit current (input PV1 / input PV2 / input PV3) [A]	PV1: 30 / PV2: 30	PV1: 30 / PV2: 30	PV1: 30 / PV2: 30 / PV3: 30	PV1: 30 / PV2: 30 / PV3: 30	PV1: 30 / PV2: 30 / PV3: 30	PV1: 30 / PV2: 30 / PV3: 30
MPPT voltage range ^① [V]	40 to 560					
Start output voltage [V]	50					
No. of MPP trackers / Strings per MPP tracker	2 / (1 / 1)	2 / (1 / 1)	3 / (1 / 1 / 1)	3 / (1 / 1 / 1)	3 / (1 / 1 / 1)	3 / (1 / 1 / 1)
INPUT AC						
Nominal AC power [VA]	6300	7360	9200	9200	9200	9200
Max. AC current [A]	27.4	32	40.0	40.0	40.0	40.0
Rated grid frequency [Hz]	50 / 60					
Power factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)					
OUTPUT AC (On-Grid)						
Nominal AC power [VA]	3000	3680	4600	5000	6000	8000
Max. apparent AC power [VA]	3300	3680	4600	5000 (4600 for VDE4105, 4999 for AS4777, 5000 for C10/11)	6600	8000
Rated grid voltage(AC voltage range) [V]	Single phase, 220 / 230 / 240					
Rated grid frequency [Hz]	50 / 60					
Rated AC output current [A] (at 230V, 50Hz)	13.1	16	20	21.8	26.1	34.8
Max. AC current [A]	14.4	16	20	21.8	28.7	34.8
Displacement power factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)					
Total harmonic distortion (THDi, rated power) [%]	< 3					

X1-IES-3K X1-IES-3.7K X1-IES-4.6K X1-IES-5K X1-IES-6K X1-IES-8K

EPS OUTPUT (With battery)

EPS peak power [VA]	2Pn, 10s (Full sun)					
EPS rated power [VA]	3000	3680	4600	5000	6000	8000
EPS rated voltage [V]; frequency [Hz]	Single phase, 220 / 230 / 240; 50/60					
EPS rated current [A]	13.1	16	20	21.8	26.1	34.8
Switchover time [ms]	< 10					
Total harmonic distortion (THDv, linear Load) [%]	< 3					

BATTERY

Battery voltage range [V]	80 ~ 480
Communication interfaces	CAN / RS485
BMS module	TBMS-MCS0800E
Battery module	TP-HS50E
Composition	TBMS-MCS0800E + TP-HS50E * n + Base Dimensions + Series Box (Required for two columns)
Battery type	Li-ion (LFP)
Nominal capacity [kWh] / Nominal capacity [Ah] ^②	5.1 / 50
Usable energy [kWh] ^③	4.6
Standard power [kW]	3
Max power [kW]	5.1
Max. charge / discharge current [A] ^④	50
Cycle life [Cycles]	> 6000
Warranty [Years]	10
Safety	CE, RCM, TUV (IEC62619), RoHS, REACH
TBMS-MCS0800E dimensions(W x H x D) [mm] / Weight [kg]	730 x 165 x 150 / 9.3
TP-HS50E dimensions(W x H x D) [mm] / Weight [kg]	730 x 318 x 150 / 47
Base dimensions(W x H x D) [mm] / Weight [kg]	730 x 75 x 150 / 3.9
Series box dimensions(W x H x D) [mm] / Weight [kg]	167 x 91.5 x 121 / 1.3

EFFICIENCY

Max. efficiency [%] / Euro-efficiency [%]	97.6 / 97.0
Rated battery charge [%] / Discharge efficiency [%]	98.5 / 97

GENERAL DATA (INVERTER)

Dimensions (W x H x D) [mm]	717 x 350 x 210
Weight [kg]	< 28
Operating temperature range [°C]	-35 to 60 (derating at 45°C)
Relative humidity [%]	0 to 100 (condensing)
Storage temperature [°C]	-40 to 65
Noise emission (typical) [dB(A)]	< 35
Internal consumption (night) [W]	< 40W for hot standby, < 5W for cold standby

PROTECTION

Anti-Islanding protection	Yes
DC reverse polarity protection	Yes
Insulation monitoring	Yes
Residual current monitoring	Yes
AC overcurrent protection	Yes
AC short-circuit protection	Yes
AC overvoltage protection	Yes
Over-heat protection	Yes
AFCI	OPT
Surge protection	Type II, DC and AC

STANDARD

Safety	IEC62109-1 / IEC62109-2
EMC	EN 61000-6-1 / EN 61000-6-2 / EN 61000-6-3
Certification	VDE 0126-1-1 A1:2012 / VDE-AR-N 4105 / G98/G99/ AS4777 / EN50549 / CEI 0-21

① Any DC input voltage beyond the MPPT voltage range may result in inverter improper operating.

② Test conditions: 25°C, 100% depth of discharge (DoD), 0.2C charge & discharge.

③ System usable energy may vary with inverter different setting.

④ Discharge: In case of battery cell's temperature range of -20°C~10°C and 45°C~53°C, the discharge current will be reduced; Charge: In case of battery cell's temperature range of 0°C~25°C and 45°C~53°C, the charge current will be reduced. Product charge or discharge power depends on the actual temperature of battery pack.

THREE PHASE SYSTEM OVERVIEW

System schematic



	5 / 6 / 8 / 10 / 12 / 15					
Rated output power [kW]	5 / 6 / 8 / 10 / 12 / 15					
Number of batteries	2	3	4	5	6	
Nominal capacity [kWh] ^①	10.2	15.3	20.4	25.6	30.7	
Usable energy [kWh] ^②	9.2	13.8	18.4	23.0	27.6	
Max. charge / discharge power [kW] ^③	10.2	15	15	15	15	
Degree of protection	IP66					
Operating temperature range [°C]	-30 to 53					
Allowable relative humidity range [%]	5-95 (No condensation)					
Max. operating altitude [m]	3000					
Net weight [kg] ^④	144.2	191.2	144.2 / 100.5	144.2 / 147.5	191.2 / 147.5	
Dimension (W x H x D) [mm]	730 x 1281 x 209.5	730 x 1599 x 209.5	730 x 1281 x 209.5/ 730 x 809 x 150	730 x 1281 x 209.5/ 730 x 1127 x 150	730 x 1599 x 209.5/ 730 x 1127 x 150	
Display	LCD					
Cooling concept	Natural cooling					
Topology	Transformerless					
Communication	RS485, Pocket-X, USB, CAN, DO, DI					

① Test conditions: 25°C, 100% depth of discharge (DoD), 0.2C charge & discharge.

② System usable energy may vary with inverter different setting.

③ The max.charge/discharge power must not exceed the rated output power (the table takes the maximum power inverter as an example).

④ Different inverter models have different weights. The heaviest one is taken as an example.

SPECIFICATIONS

	X3-IES-5K	X3-IES-6K	X3-IES-8K	X3-IES-10K	X3-IES-12K	X3-IES-15K
INPUT PV						
Max. recommended PV array power [Wp]	10000	12000	16000	20000	24000	30000
Max. DC voltage [V]	1000					
Nominal DC operating voltage [V]	600					
Max. input current (input PV1 / input PV2) [A]	PV1: 20 / PV2: 20	PV1: 20 / PV2: 20	PV1: 32 / PV2: 20	PV1: 32 / PV2: 20	PV1: 32 / PV2: 20	PV1: 32 / PV2: 20
Max. short circuit current (input PV1 / input PV2) [A]	PV1: 25 / PV2: 25	PV1: 25 / PV2: 25	PV1: 40 / PV2: 25	PV1: 40 / PV2: 25	PV1: 40 / PV2: 25	PV1: 40 / PV2: 25
MPPT voltage range ^① [V]	110 to 950					
Start output voltage [V]	140					
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)
INPUT AC						
Normal AC power [VA]	10000	12000	16000	20000	20000	20000
Max. AC current [A]	16.1	19.3	25.8	32.0	32.0	32.0
Rated grid Frequency [Hz]	50 / 60					
Power factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)					
OUTPUT AC(On-Grid)						
Nominal AC power [VA]	5000	6000	8000	10000 (AS4777 9999)	12000	15000
Max. apparent AC power [VA]	5500	6600	8800	10000 (AS4777 9999)	13200	16500
Rated grid voltage(AC voltage range) [V]	3P4W, 380 / 400					
Rated grid Frequency [Hz]	50 / 60					
Rated AC Output Current [A] (at 230V, 50Hz)	7.3	8.7	11.6	14.5	17.4	21.8
Max. AC current [A]	8	9.6	12.8	14.5	19.2	24.0
Displacement power factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)					
Total harmonic distortion (THDi, rated power) [%]	< 3					

X3-IES-5K X3-IES-6K X3-IES-8K X3-IES-10K X3-IES-12K X3-IES-15K

	2Pn, 10s (Full sun)	2Pn, 10s (Full sun)	2Pn, 10s (Full sun)	2Pn, 10s (Full sun)	2Pn, 10s (Full sun)	2Pn, 10s (Full sun)
EPS OUTPUT(With Battery)						
EPS peak power [VA]	5000	6000	8000	10000	12000	15000
EPS rated power [VA]	3P4W, 380 / 400, 50/60					
EPS rated voltage [V], Frequency [Hz]	7.3	8.7	11.6	14.5	17.4	21.8
EPS rated current [A]	< 10					
Switchover time [ms]	< 3					
Total harmonic distortion (THDv, linear Load) [%]	2					
Max. half wave loads [kW]						
BATTERY						
Battery voltage range [V]	160 ~ 800					
Communication interfaces	CAN / RS485					
BMS module	TBMS-MCS0800E					
Battery module	TP-HS50E					
Composition	TBMS-MCS0800E + TP-HS50E * n + Base Dimensions + Series Box (Required for two columns)					
Battery type	Li-ion (LFP)					
Nominal capacity [kWh] / Nominal capacity [Ah] ^②	5.1 / 50					
Usable energy [kWh] ^③	4.6					
Standard power [kW]	3					
Max power [kW]	5.1					
Max. charge / discharge current [A] ^④	50					
Cycle life [Cycles]	> 6000					
Warranty [Years]	10					
Safety	CE, RCM, TUV (IEC62619), RoHS, REACH					
TBMS-MCS0800E dimensions(W x H x D) [mm] / Weight [kg]	730 x 165 x 150 / 9.3					
TP-HS50E dimensions(W x H x D) [mm] / Weight [kg]	730 x 318 x 150 / 47					
Base dimensions(W x H x D) [mm] / Weight [kg]	730 x 75 x 150 / 3.9					
Series box dimensions(W x H x D) [mm] / Weight [kg]	167 x 91.5 x 121 / 1.3					
EFFICIENCY						
Max. efficiency [%] / Euro-efficiency [%]	98/ 97.7					
Rated battery charge [%] / Discharge efficiency [%]	98.5 / 97					
GENERAL DATA (Inverter)						
Dimensions (W x H x D) [mm]	717 x 405 x 209.5					
Weight [kg]	< 37					
Operating temperature range [°C]	- 35 to 60 (derating at +45)					
Relative humidity [%]	0 to 100 (condensing)					
Storage temperature [°C]	- 40 to 65					
Noise emission (typical) [dB(A)]	< 33					
Internal consumption (night) [W]	< 40 for hot standby, < 5 for cold standby					
Idle mode	Yes					
PROTECTION						
Anti-Islanding protection	Yes					
DC reverse polarity protection	Yes					
Insulation monitoring	Yes					
Residual current monitoring	Yes					
AC overcurrent protection	Yes					
AC short-circuit protection	Yes					
AC overvoltage protection	Yes					
Over-heat protection	Yes					
AFCI	OPT					
Surge protection	Type II , DC and AC					
STANDARD						
Safety	IEC62109-1 / IEC62109-2					
EMC	EN 61000-6-1 / EN 61000-6-2 / EN 61000-6-3					
Certification	VDE 0126-1-1 A1:2012 / VDE-AR-N 4105 /G98/G99/ AS4777 / EN50549/ CEI 0-21					

① Any DC input voltage beyond the MPPT voltage range may result in inverter improper operating.

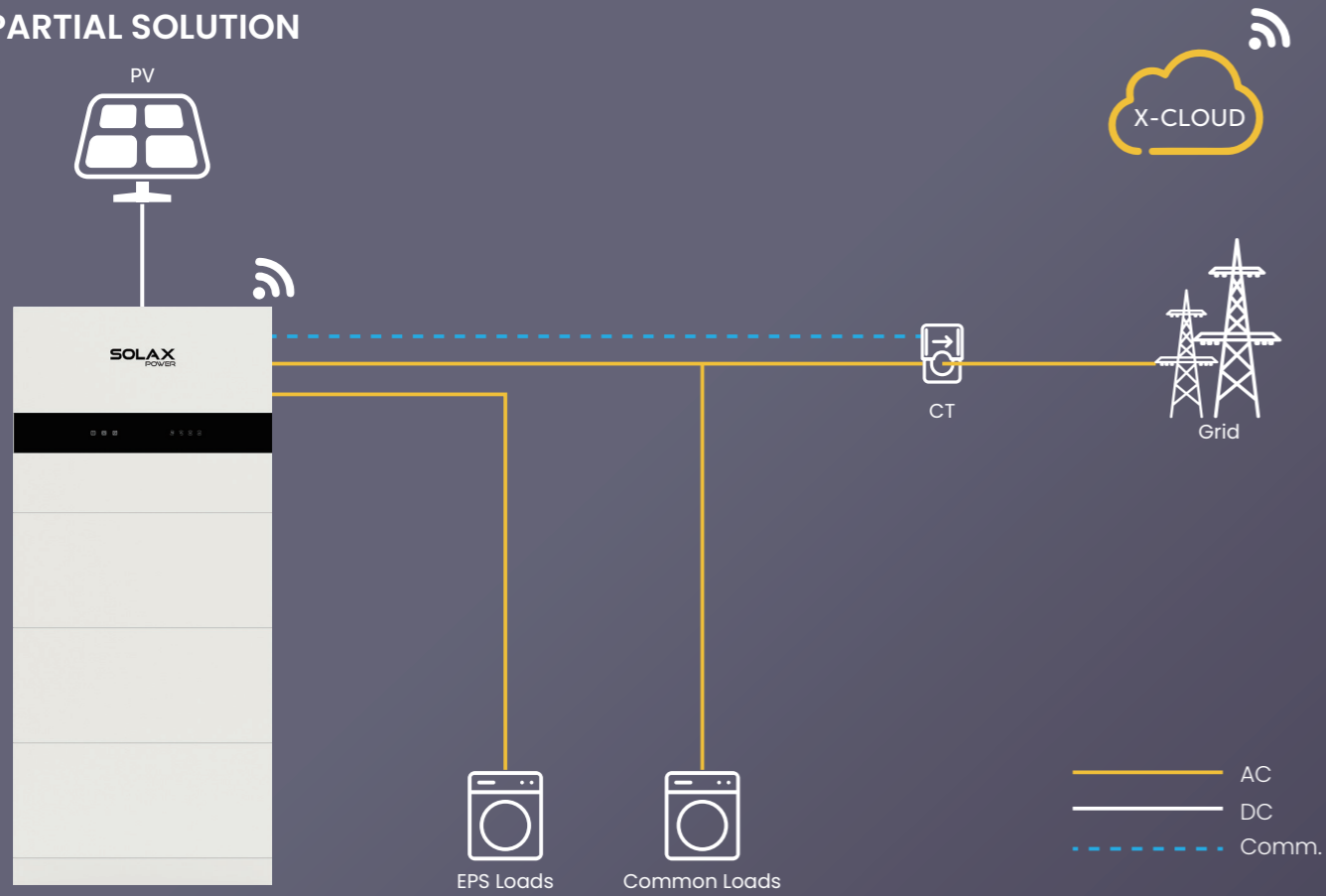
② Test conditions: 25°C, 100% depth of discharge (DoD), 0.2C charge & discharge.

③ System usable energy may vary with inverter different setting.

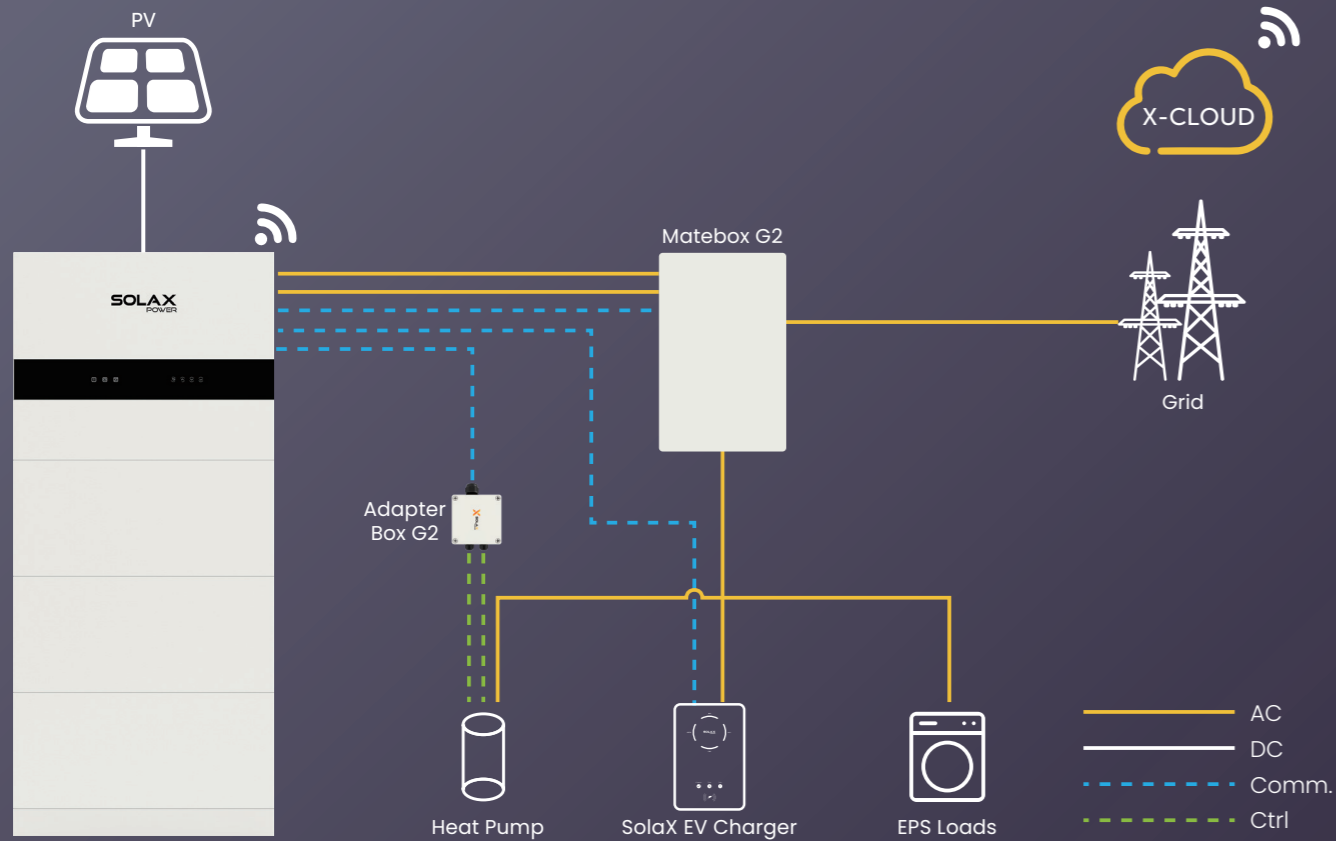
④ Discharge: In case of battery cell's temperature range of -20°C~10°Cand 45°C~53 °C,the discharge current will be reduced; Charge: In case of battery cell's temperature range of 0°C~25°C and 45°C~53°C, the charge current will be reduced. Product charge or discharge power depends on the actual temperature of battery pack.

TACTICAL SCENARIO

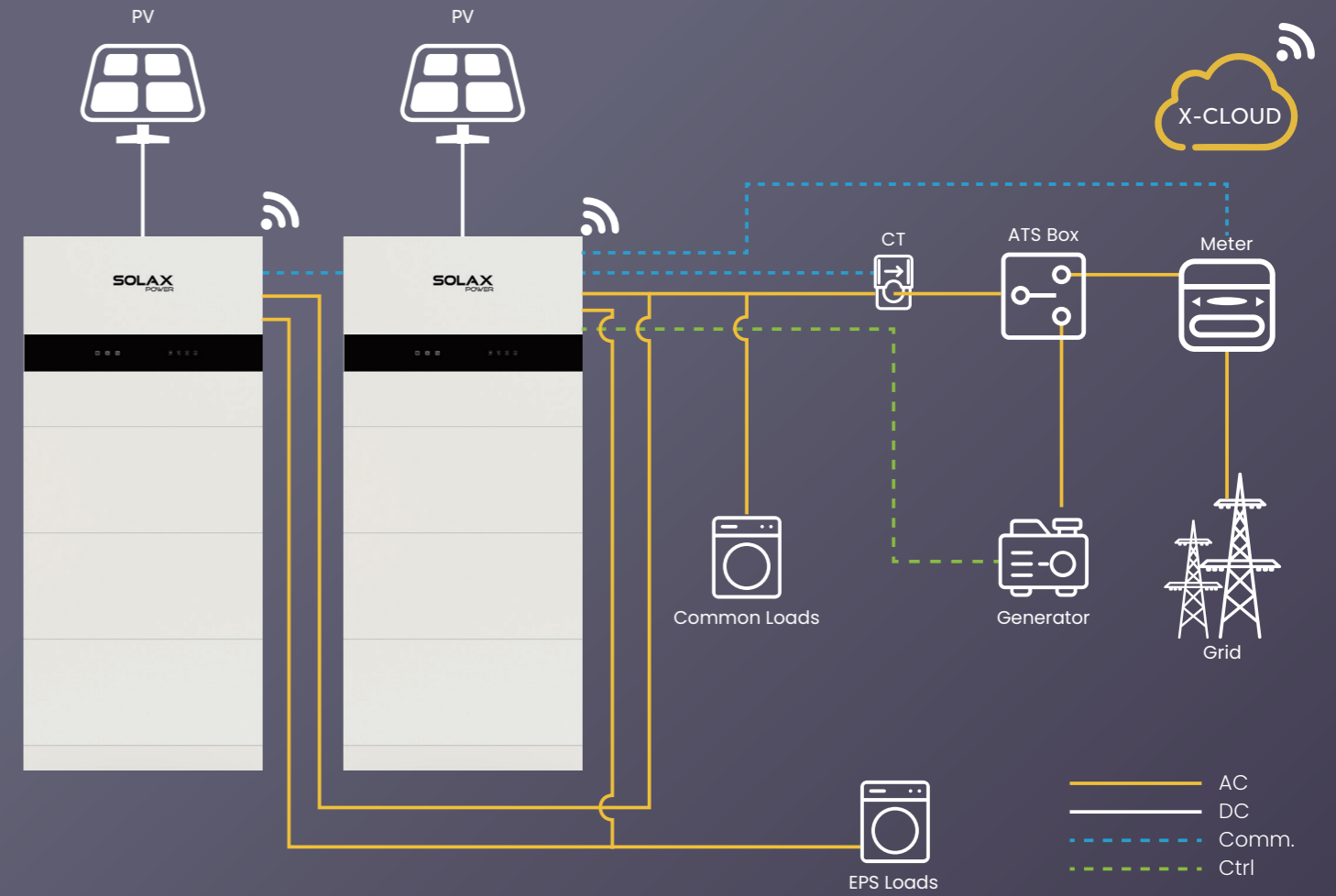
PARTIAL SOLUTION



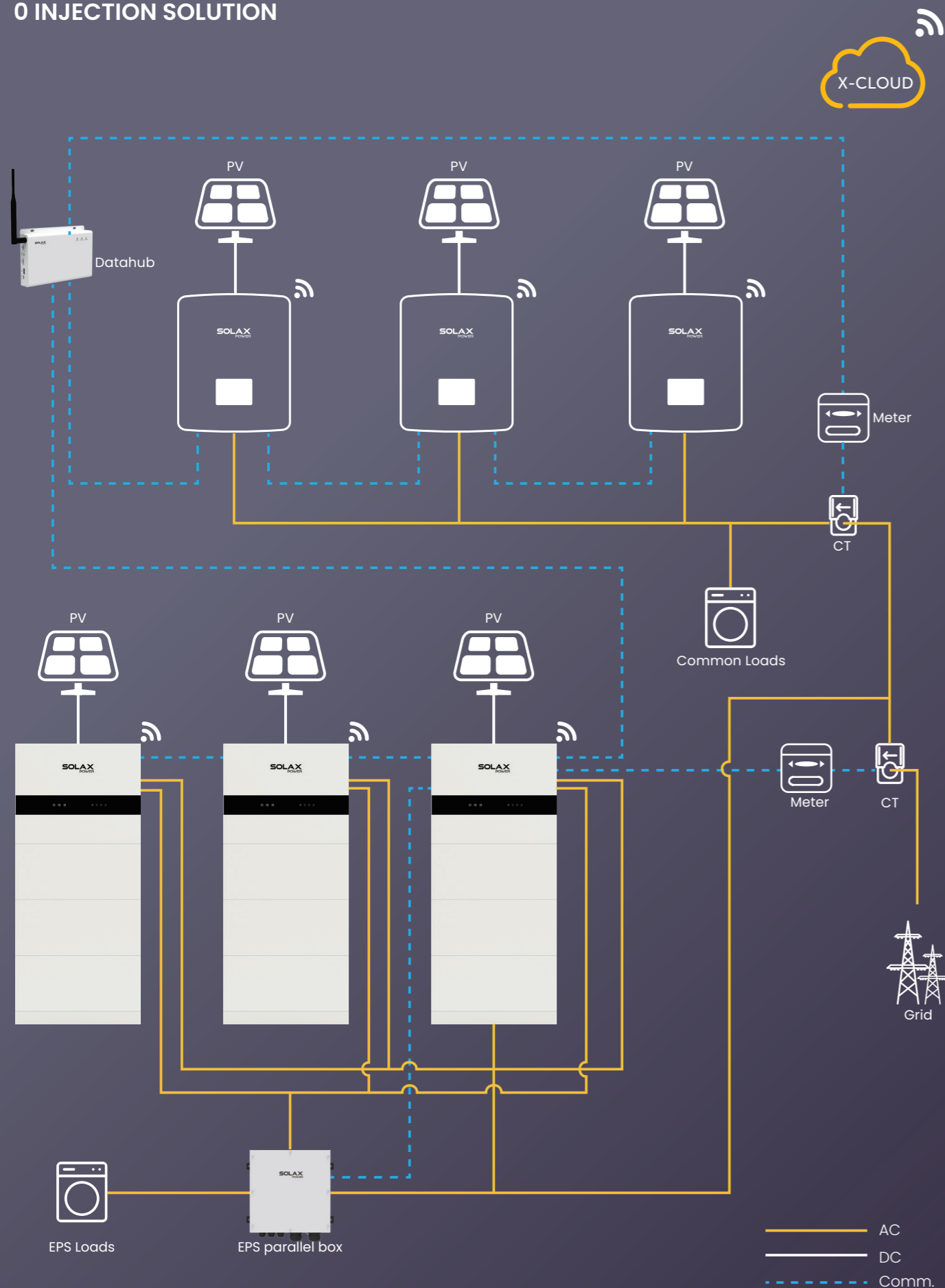
WHOLE HOME BACKUP SOLUTION



PARALLEL & GENERATOR INTEGRATED SOLUTION



Three Phase 0 INJECTION SOLUTION



SOLAX X3-ULTRA



Features

Economic

- Maximum 200% oversize and 200% PV input power
- Maximum 36A input current per MPPT, support high power solar panel

Intelligent

- AI ready, forecasting solar generation and home consumption, smart energy management strategy
- VPP ready, SolaX cloud supports resource aggregator (2030.5, OpenADR)
- Support smart scene function, intelligent loads management (e.g., Heat pump, EV charger)
- Micro-grid ready, supporting a variety of scenarios, both on-grid and off-grid, balancing power between PCS and Hybrid in real time
- Support 7×24h scheduling mode
- Support Wireless meter solution
- Dual independent battery ports are ready to expand battery capacity free

Robust

- Robust back-up ability, switch over time <10ms, up to 200% EPS output for 10s, support half-wave loads
- Stronger, EPS operation without battery

Safe

- IP66 protection level
- AC&DC SPD type II, always guarding the inverter
- AFCI optional

X3-ULTRA (THREE PHASE)

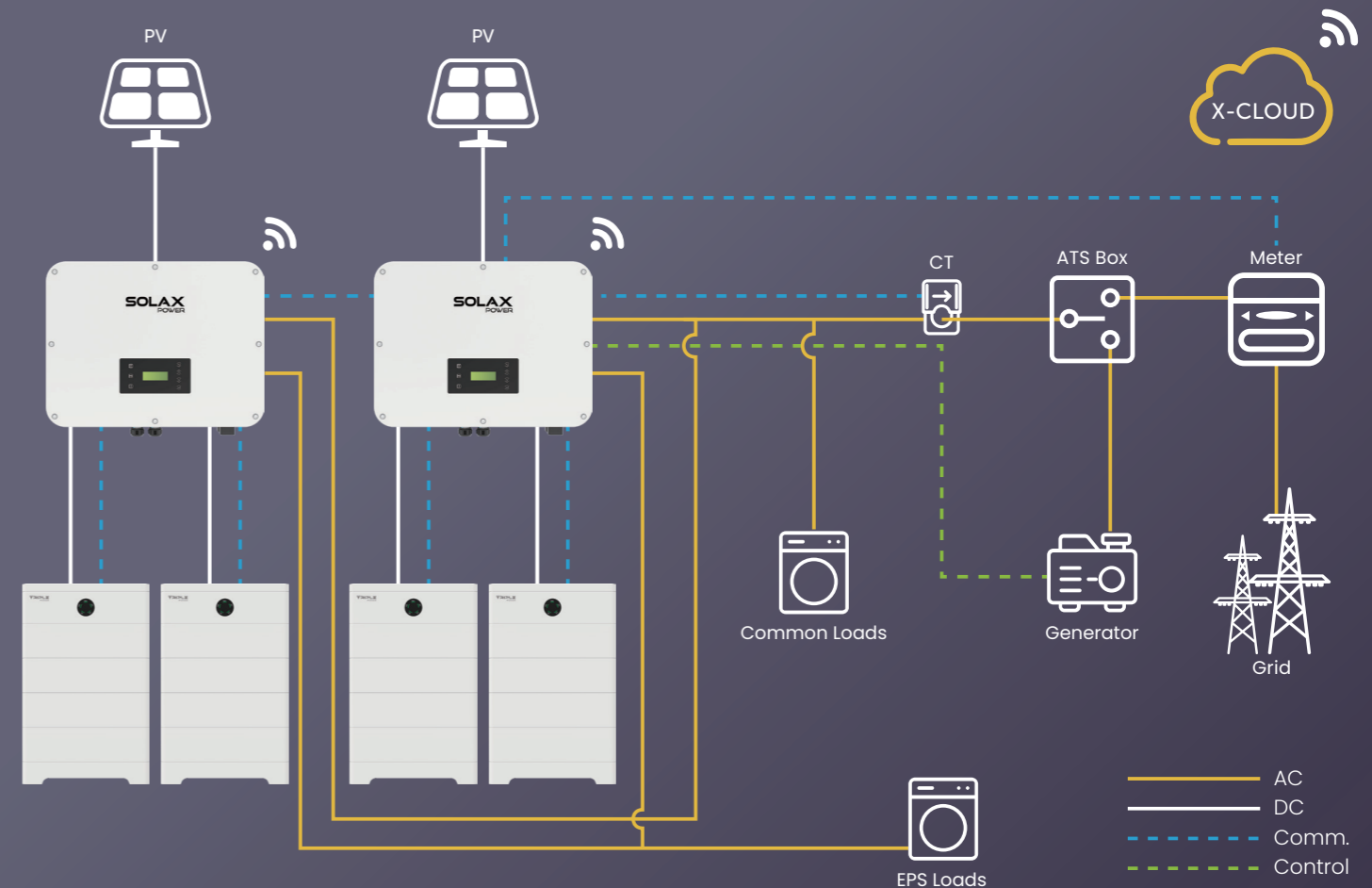
	X3-ULT-15KP	X3-ULT-15K	X3-ULT-19.9K	X3-ULT-20K	X3-ULT-20KP	X3-ULT-25K	X3-ULT-30K
INPUT PV							
Max.recommended PV array power [Wp]	30000	30000	40000	40000	40000	50000	60000
Max.input DC power [W]	30000	30000	40000	40000	40000	50000	60000
Max.DC voltage [V]				1000			
Nominal DC operating voltage [V]				600			
No. of MPP trackers / Strings per MPP tracker	3(2/2/2)	2 (2 / 2)	2 (2 / 2)	2 (2 / 2)	3 (2 / 2 / 2)	3(2/2/2)	3(2/2/2)
Max. input current (input PV1 / input PV2 / input PV3) [A]①	PV1: 36 / PV2: 36 / PV3: 36	PV1: 36 / PV2: 36	PV1: 36 / PV2: 36	PV1: 36 / PV2: 36	PV1: 36 / PV2: 36	PV1: 36 / PV2: 36 / PV3: 36	PV1: 36 / PV2: 36 / PV3: 36
Max. short circuit current (input PV1 / input PV2 / input PV3) [A]	PV1: 45 / PV2: 45 / PV3: 45	PV1: 45 / PV2: 45	PV1: 45 / PV2: 45	PV1: 45 / PV2: 45	PV1: 45 / PV2: 45	PV1: 45 / PV2: 45 / PV3: 45	PV1: 45 / PV2: 45 / PV3: 45
MPPT voltage range [V]				160 - 950			
Start output voltage [V]				200			
OUTPUT AC(On-Grid)							
Nominal AC power [VA]	15000 (AS 4777 14999)	15000 (AS 4777 14999)	19999	20000	20000	25000	30000 (AS 4777 29999)
Max. apparent AC power [VA]	16500 (AS 4777 14999)	16500 (AS 4777 14999)	19999	22000	22000	27500	30000 (AS 4777 29999)
Rated grid voltage (AC voltage range) [V]				3P4W, 400 / 230			
Rated grid frequency [Hz]				50 / 60			
Nominal AC current [A]	21.8	21.8	29.0	29.0	29.0	36.3	43.5
Max. AC current [A]	24.0	24.0	29.0	31.9	31.9	39.9	43.5
Displacement power factor				1 (- 0.8 ~ 0.8)			
Total harmonic distortion (THDi, rated power) [%]				< 3			
INPUT AC							
Nominal AC power [VA]	15000	15000	19999	20000	20000	25000	30000
Nominal AC current [A]	21.8	21.8	29.0	29.0	29.0	36.3	43.5
Rated grid voltage (AC voltage range) [V]				3P4W, 400 / 230			
Rated grid frequency [Hz]				50 / 60			
BATTERY							
Battery type				Lithium - ion			
Battery voltage range [V]				180 - 800			
Max. charge / Discharge current [A]				60 (30 × 2)			
EPS OUTPUT(WITH BATTERY)							
EPS peak power [VA]				2 time of rated power, 10s			
EPS rated power [VA]	15000	15000	19999	20000	20000	25000	30000
EPS rated voltage [V], Frequency [Hz]				400 / 230; 50 / 60			
EPS rated current [A]	21.8	21.8	29.0	29.0	29.0	36.3	43.5
Switchover time [ms]				< 10			
Total harmonic distortion (THDv, linear Load) [%]				< 3			
POWER CONSUMPTION							
Internal consumption (night) [W]				< 5			
PROTECTION							
Anti-Islanding protection				Yes			
DC reverse polarity protection				Yes			
Insulation monitoring				Yes			
Residual current monitoring				Yes			
AC overcurrent protection				Yes			
AC short-circuit protection				Yes			
AC overvoltage protection				Yes			
Over-heat protection				Yes			
Battery reverse charging from grid				Yes			
Surge protection				Type II, DC and AC			
AFCI				OPT			

X3-ULTRA (THREE PHASE)

	X3-ULT-15KP	X3-ULT-15K	X3-ULT-19.9K	X3-ULT-20K	X3-ULT-20KP	X3-ULT-25K	X3-ULT-30K
EFFICIENCY							
Max. efficiency / European efficiency				98.0% / 97.7%			
Rated battery charge / Discharge efficiency				98.5% / 97.0%			
STANDARD							
Safety				EN / IEC62109 - 1 / - 2			
EMC				EN61000 - 6 - 1 / 2 / 3 / 4; EN61000 - 3 - 11 / 12; EN 5011; IEC 62920			
Certification				VDE4105 / G99 / AS4777 / EN50549 / CEI 0 - 21 / IEC61727 / PEA / MEA / NRS - 097 - 2 - 1 / RD1699 / TOR			
GENERAL DATA							
Protection class				IP66			
Operating temperature range [°C]				- 35 ~ 60 (Derating above + 45)			
Relative humidity [%]				0 ~ 100			
Altitude [m]				< 3000			
Storage temperature [°C]				- 40 ~ +70			
Dimensions (WxHxD) [mm]				696 x 526 x 240			
Weight [kg]				47			
Cooling concept				Smart cooling			
Topology				Transformerless			
Communication				Modbus (RS485), Meter (RS485), DI x 5, DO x 2			

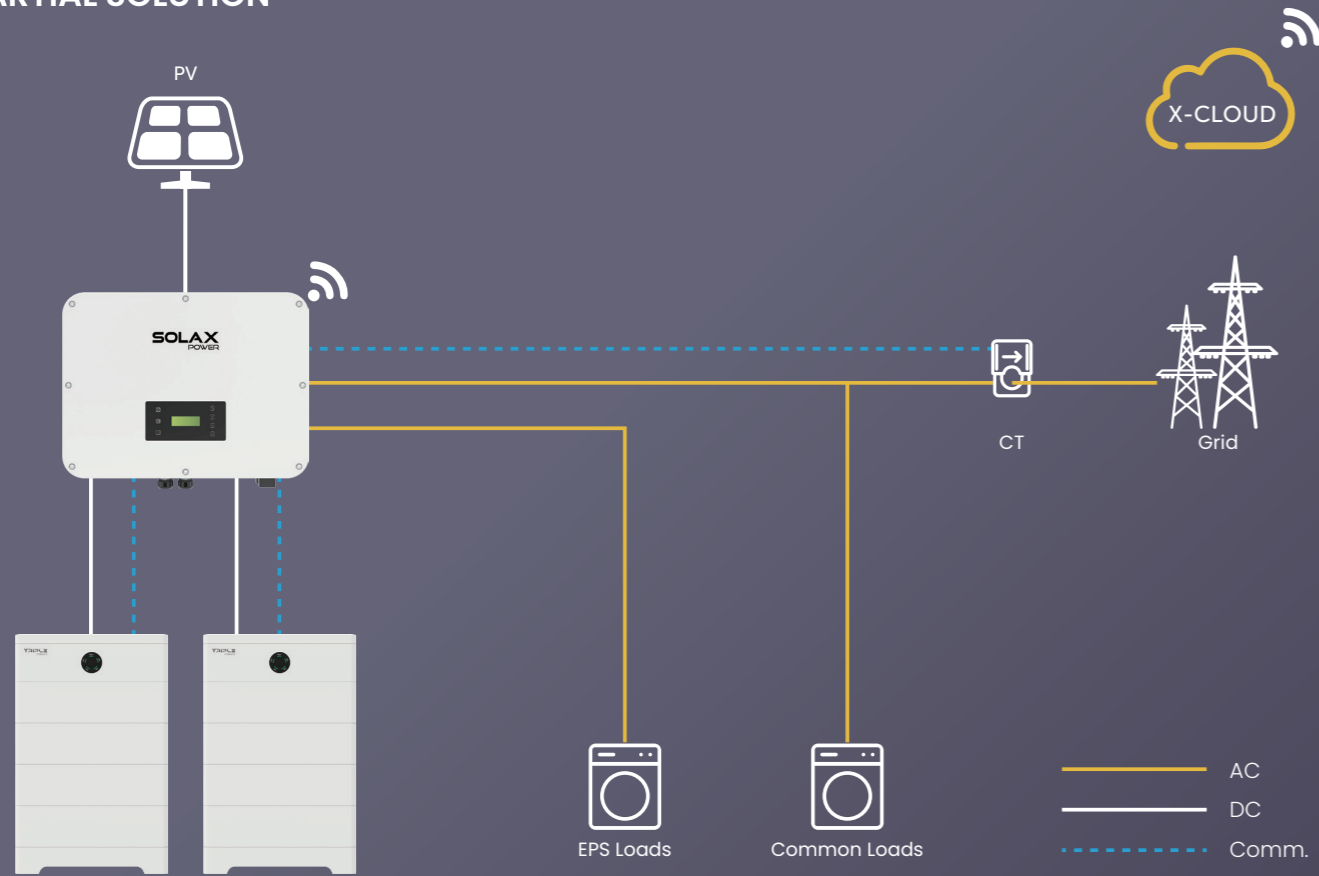
①: Input PV3 only available for 15KP, 25K and 30K.

PARALLEL & GENERATOR INTEGRATED SOLUTION

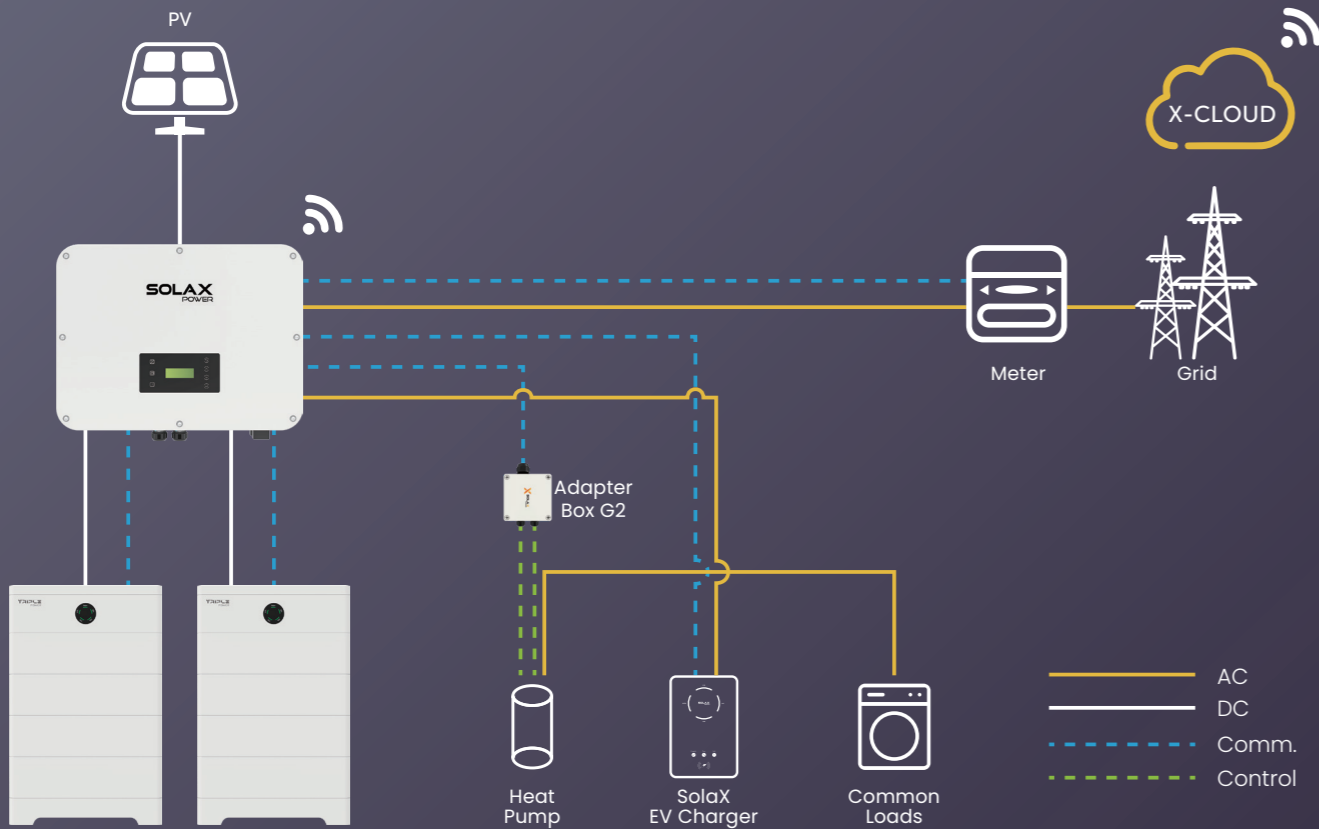


TYPICAL SCENARIO

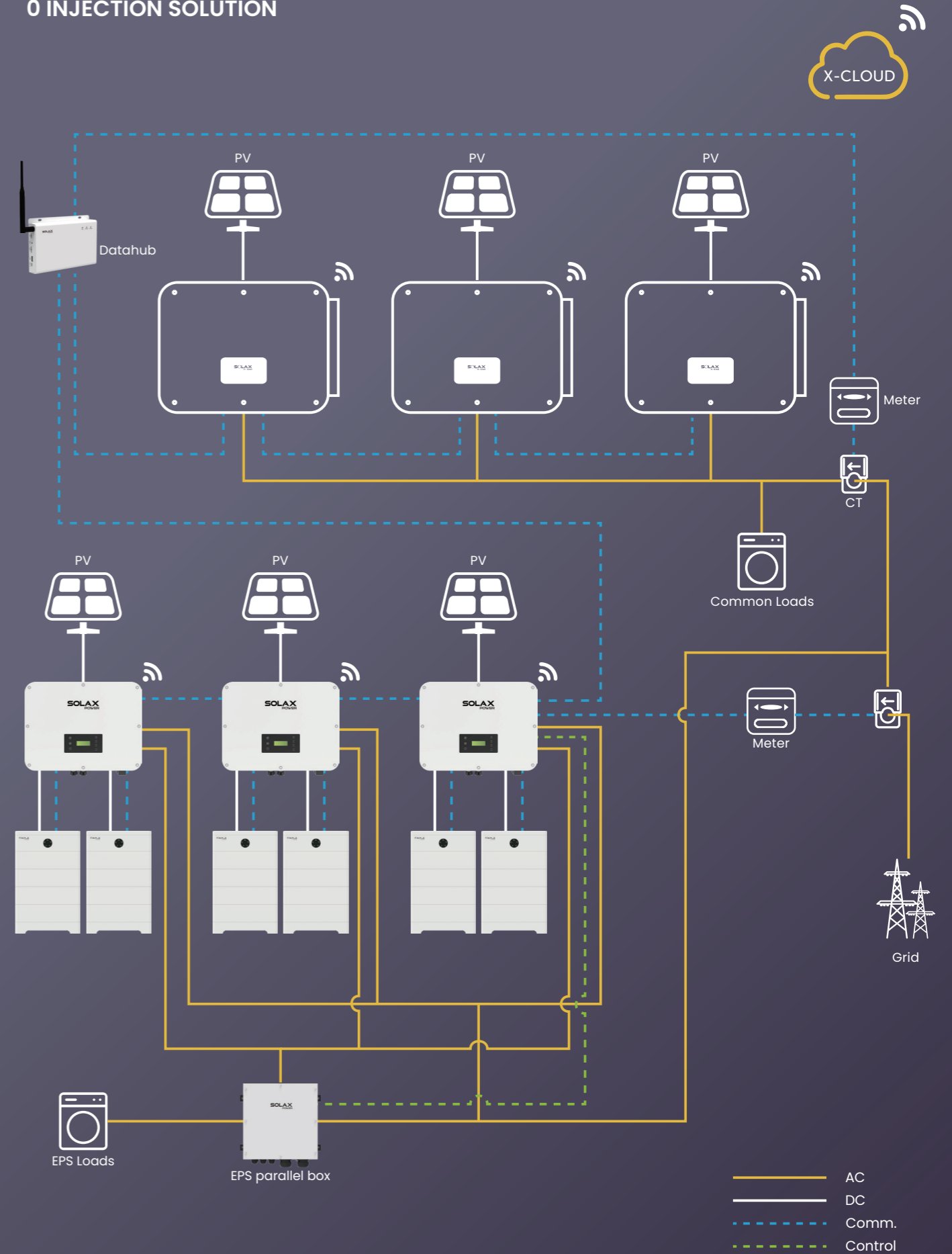
PARTIAL SOLUTION



WHOLE HOME BACKUP SOLUTION



0 INJECTION SOLUTION



BY SOLAX
TRIPLE
POWER

NEW FROM SOLAX

T-BAT-SYS-HV-S3.6



T-BAT-SYS-HV-S3.6

T-BAT HS7.2/T-BAT HS10.8/T-BAT HS14.4

T-BAT HS18.0/T-BAT HS21.6/T-BAT HS25.2

T-BAT HS28.8/T-BAT HS32.4/T-BAT HS36.0

T-BAT HS39.6/T-BAT HS43.2/T-BAT HS46.8

Features

HIGH-PERFORMANCE

- Max. 50A continuous charging and discharging current
- Unique battery heating technology, which is capable to work at low temperature

SAFE AND RELIABLE

- Reliable LFP battery cell
- IP65 for both indoor and outdoor installation
- Soft start protecting batteries and inverters from a sudden surge
- Cycle life > 6000 times

FLEXIBILITY

- 7.3-47.9kWh Wide capacity range
- Extendable during lifetime

EASY INSTALLATION

- Stackable modules, Easy and fast for single person installation
- Pre-wired communication cables for plug and play
- Remote diagnosis and update via inverter

T-BAT-SYS-HV-S3.6

T-BAT HS7.2

T-BAT HS10.8

T-BAT HS14.4

T-BAT HS18.0

T-BAT HS21.6

T-BAT HS25.2

Technical Specification

	2 modules	3 modules	4 modules	5 modules	6 modules	7 modules
Nominal Capacity [kWh]	7.3	11.0	14.7	18.4	22.10	25.8
Usable Energy (90% DOD) ^① [kWh]	6.5	9.9	13.2	16.5	19.8	23.2
Nominal voltage [V]	102.4	153.6	204.8	256	307.2	358.4
Operating voltage range [V]	90-116	135-174	180-232	225-290	270-349	315-406
Recommend Charge / Discharge Current ^② [A]	35					
Max. Charge / Discharge Current ^② [A]	50					
Nominal Power ^③ [kW]	3.5	5.3	7.1	8.9	10.7	12.5
Max. Power ^③ [kW]	5.1	7.6	10.2	12.8	15.3	17.9
Depth of Discharge [%]	90					
Communication interface	RS485, CAN					
Dimension (Lx W x H) [mm]	510 x 365 x 508	510 x 365 x 645	510 x 365 x 783	510 x 365 x 920	510 x 365 x 1058	510 x 365 x 1195

T-BAT HS28.8

T-BAT HS32.4

T-BAT HS36.0

T-BAT HS39.6

T-BAT HS43.2

T-BAT HS46.8

Technical Specification

	8 modules	9 modules	10 modules	11 modules	12 modules	13 modules
Nominal Capacity [kWh]	29.4	33.1	36.8	40.5	44.2	47.9
Usable Energy (90% DOD) [kWh]	26.4	29.7	33.1	36.4	39.7	43.1
Nominal voltage [V]	409.6	460.8	512	563.2	614.4	665.6
Operating voltage range [V]	360-465	405-522	450-580	495-636	540-695	585-750
Recommend Charge / Discharge Current [A]	35					
Max. Charge / Discharge Current [A]	50					
Nominal Power [kW]	14.3	16.1	17.9	19.7	21.5	23.2
Max. Power [kW]	20.4	23.0	25.6	28.1	30.7	33.2
Depth of Discharge [%]	90					
Communication interface	RS485, CAN					
Dimension (Lx W x H) [mm]	510 x 365 x 1333	510 x 365 x 1470	510 x 365 x 920 + 510 x 365 x 920	510 x 365 x 1058 + 510 x 365 x 920	510 x 365 x 1058 + 510 x 365 x 1058	510 x 365 x 1195 + 510 x 365 x 1058

T-BAT HS7.2~T-BAT HS46.8

BMS

Model	TBMS-MCS0800
Dimensions (Lx W x H) [mm]	510 x 365 x 157
Weight [kg]	10

BATTERY MODULE

Battery Model	TP-HS3.6
Battery Type	Li-ion (LFP)
Battery Module [kWh]	3.6
Dimensions (Lx W x H) [mm]	510 x 365 x 152
Weight [kg]	33.5

SERIES BOX

Dimensions (L x W x H) [mm]	510 x 365 x 152
Weight [kg]	8.8

GENERAL SPECIFICATION

Installation	Floor stand
Charge/discharge Temperature Range [°C]	0 to 53 (charge) (Without build-in heating function) -20 to 53 (discharge) -30 to 53 (charge/discharge)(Build-in heating function)
Max.operating altitude [m]	< 3000
Environment	Outdoor / Indoor (*Please refer to the user manual for installation condition)
Protection Degree	IP65
Relative humidity [%]	5-95%RH (non-condensing)

STANDARD AND CERTIFICATION

Certification	IEC62619, IEC60730, IEC62040, CE, UN38.3
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① Test conditions: 90% DOD, 0.2C charger & discharger @+25 °C

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

③ Recommend / Max. Charging / Discharging Current* / Nominal / Max. Power*: Recommend / Max. charging/discharging current and Nominal / Max. power derating will occur related to Temperature and SOC.

V1.3 Information may be subject to modify without notice.650.00032.00



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



V2 MASTER

V2 SLAVE

	T-BAT H 5.8	T-BAT H 11.5	T-BAT H 17.3	T-BAT H 23
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	UN3480			
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

SMART EV CHARGER

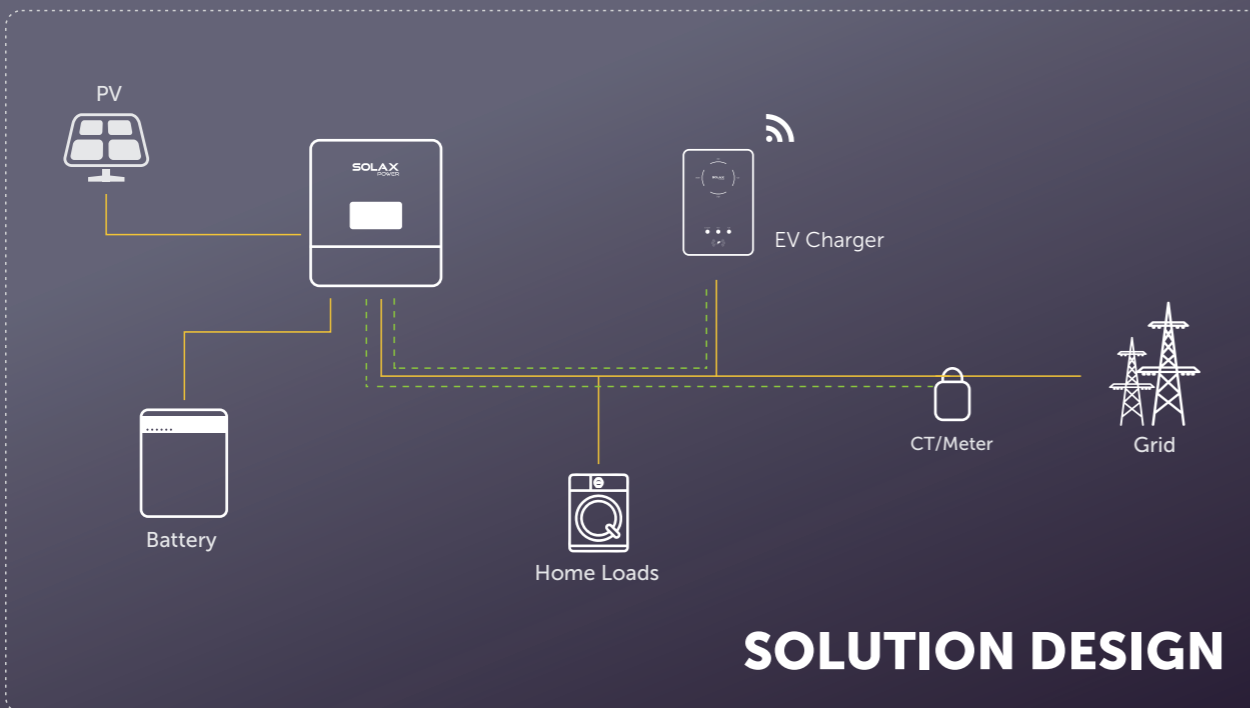
X1-EVC-7.2K

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



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
	Housing Material		Plastic/Metal	
General Data	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)	
	Net Weight [kg]		7(for type S)/10.5(for type P)	
Security Protection	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	
	Safety Standard		IEC 61851-1:2017, IEC 62196-2:2016	
	Encrypted Communication		TLS	
Certification		CE, UKCA, LVD, EMC, RED		

ADVANCED FUNCTIONS	Charging mode	<p>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.</p> <p>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.</p> <p>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.</p>
	Smart boost	With Smart Boost function, the Smart EV Charger will spend all its effort to use the PV energy as much as possible. 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	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.	

*V2.6. 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

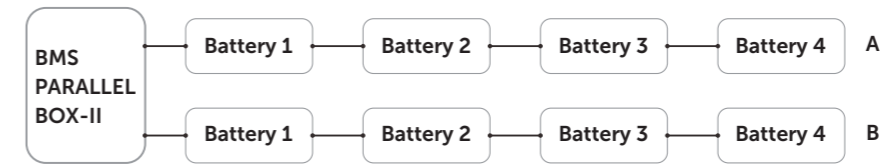


X3-PBOX-60kW-G2

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 a 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.

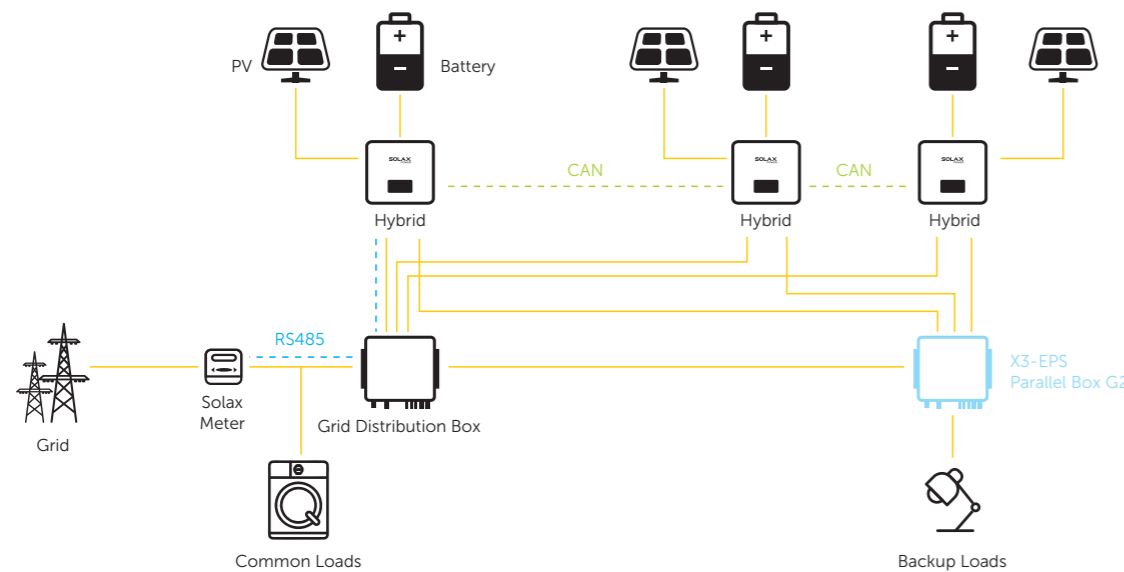
ENVIRONMENT REQUIREMENT	
Operating charge/discharge temperature range [°C]	0 ~ 55
Full-load charge/discharge temperature range [°C]	5 ~ 48
Storage temperature [°C]	-20 ~ +55 (3 months) 0 ~ 40 (1 year)
Humidity [%]	0 ~ 100 (condensing)
Altitude [m]	≤ 2000
Degree of protection	IP55
COMMUNICATION	
System 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							

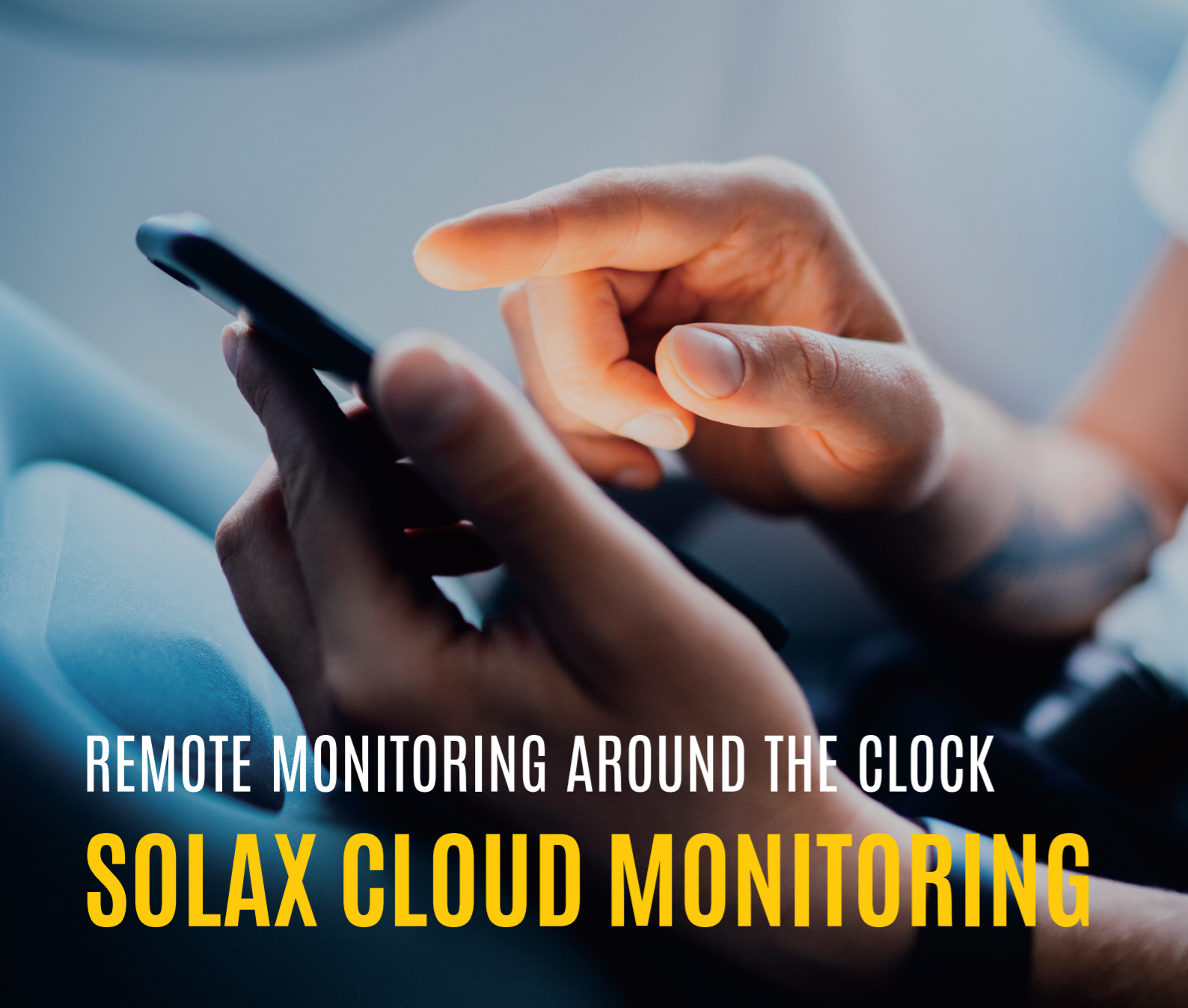
Note: BMS/Master Battery is no longer necessary

X1-Hybrid can be connected to 6 batteries at most. X3-Hybrid can be connected to 8 batteries at most.

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



*V2.1. Information may be subject to modify without notice. 650.00015.00.



REMOTE MONITORING AROUND THE CLOCK

SOLAX CLOUD MONITORING

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 WiFi
Model	Pocket WiFi V3.0-P
Power Supply	5V 260mA DC
Wireless Module	WiFi 2.4GHz
Antenna Gain	3dBi
Data Transfer Interval	5 mins
Dimensions	112*45.7*28.5 mm
Weight	107±10g
Degree of Protection	IP65
Operating Temperature Range	-35°C ~ +60°C

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



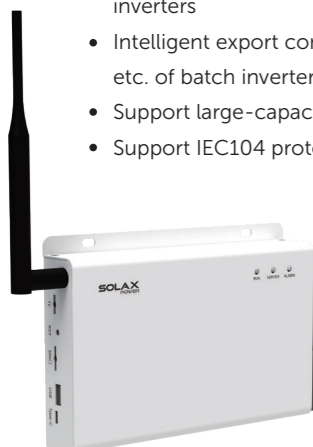
Feature

- 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

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

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	AI*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



DataHub1000

Pocket WiFi+4GM



Feature

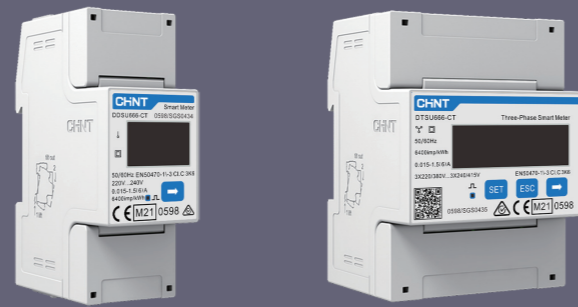
- Quick installation with "Plug & Play" function
- IP 65 dust prevention water proofing designs
- Stable data transmission and good reliability
- Offline data storage and resuming
- Multi-communication operator support
- 10 second live data monitoring
- Modbus TCP support
- IEEE2030.5 support

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

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

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

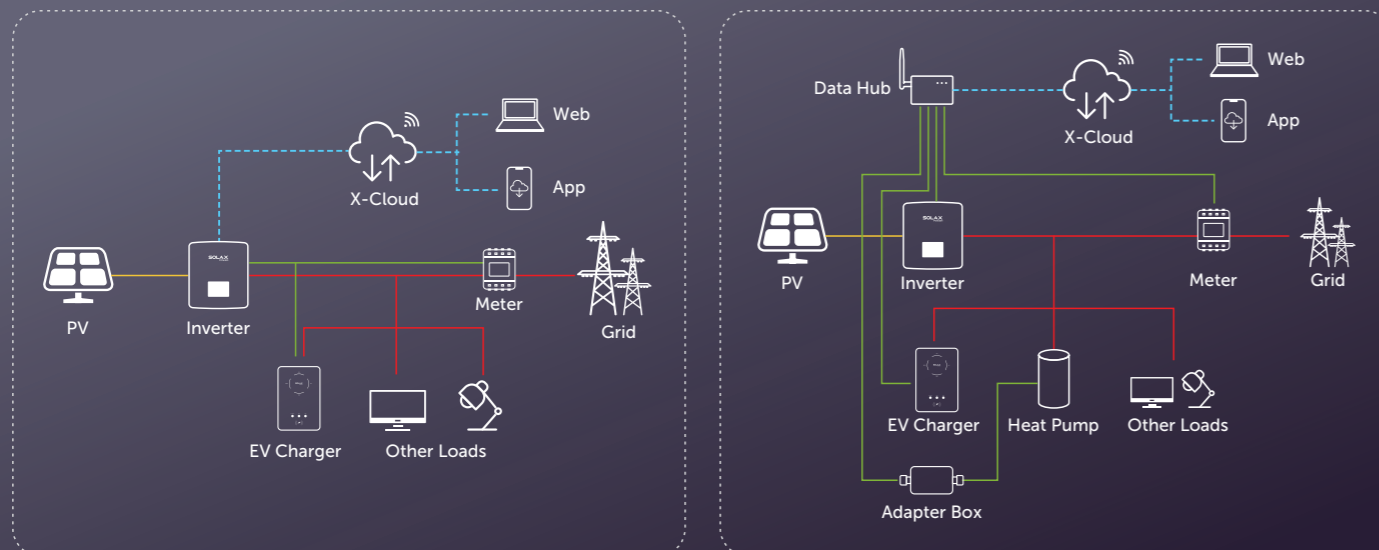
- Use clean, efficient renewable energy without pollution.
- Green and low carbon, saving economy, sustainable development

Smart Monitoring

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

SOLUTION DESIGN

DC — AC — RS485 — Internet



DDSU666
5(80)A

DTSU666
5(80)A

DDSU666-CT
200A/5A

DTSU666-CT
200A/5A

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



ADAPTER BOX G2

Remote control and setting

- Wi-Fi network connection
- Control Heat Pump output

Dual-control mode

- Dry contact, 16 signals support
- Analog output, Max. 15 steps setting

Schedule setting

- Customize schedule to control

Various Heat Pump

- SG Ready Heat Pump
- Dry contact Heat Pump
- Analog control Heat Pump

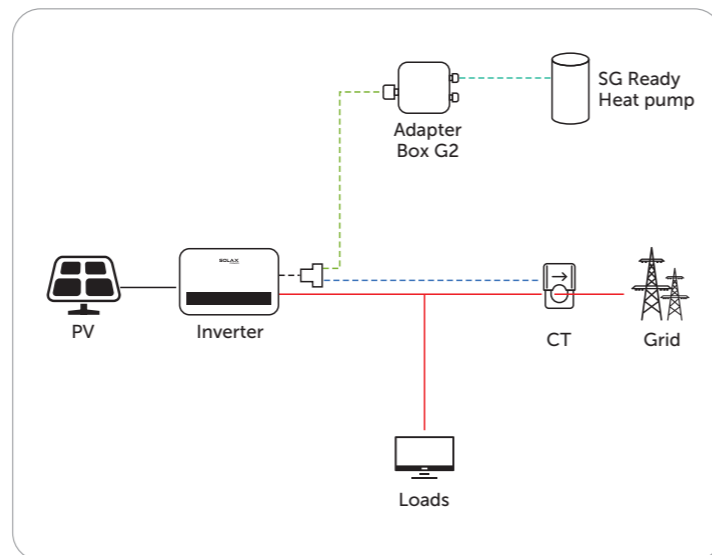
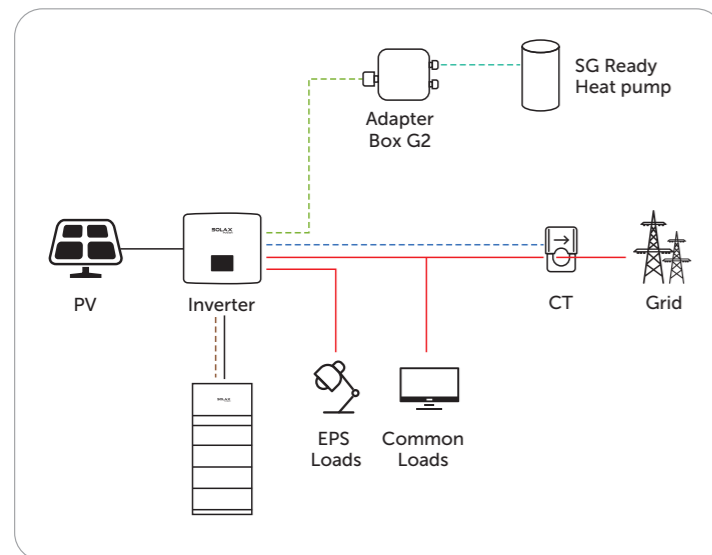
Solar efficiency

- Optimize solar efficiency with Inverter (RS485 connect)

Model	Adapter Box G2
Electrical Parameter	
Power Adapter	100-240V 50/60HZ AC power adapter (Optional); 12V 2A DC input
Power Consumption [W]	2.5
Digital Output	*4, 2A 30Vdc
Analog Output [Vdc]	*1, 0~10
Communication	
Inverter Communication	RS485
Wireless Module	WiFi 2.4GHz
EIRP Power	17.46dBm
Demand Control Interface	Yes
General Parameters	
Dimensions (LxWxH) [mm]	125 * 125 * 75
Weight [kg]	0.4
Operating Temperature Range [°C]	-30~60
Degree of Protection	IP65
Installation Method	Wall mounting
STANDARD	
Certification	RED/FCC/RCM/RoHS

Solutions

DC — AC — RS485 — CT Comm — DO/AO — COM — CAN



WIRELESS BRIDGE



High Compatibility

- Compatible with both single-phase and three-phase meters.

Easy Installation

- Supports din-rail installation inside the cabinet for 85 Vac-277 Vac power supply.

Wide Coverage

- Offers efficient and stable data transmission of up to 300 m long distance.

Strong Penetration

- With better signal through the wall effect, can provide up and down multi-floor communication, strong anti-interference ability.

Technical Data

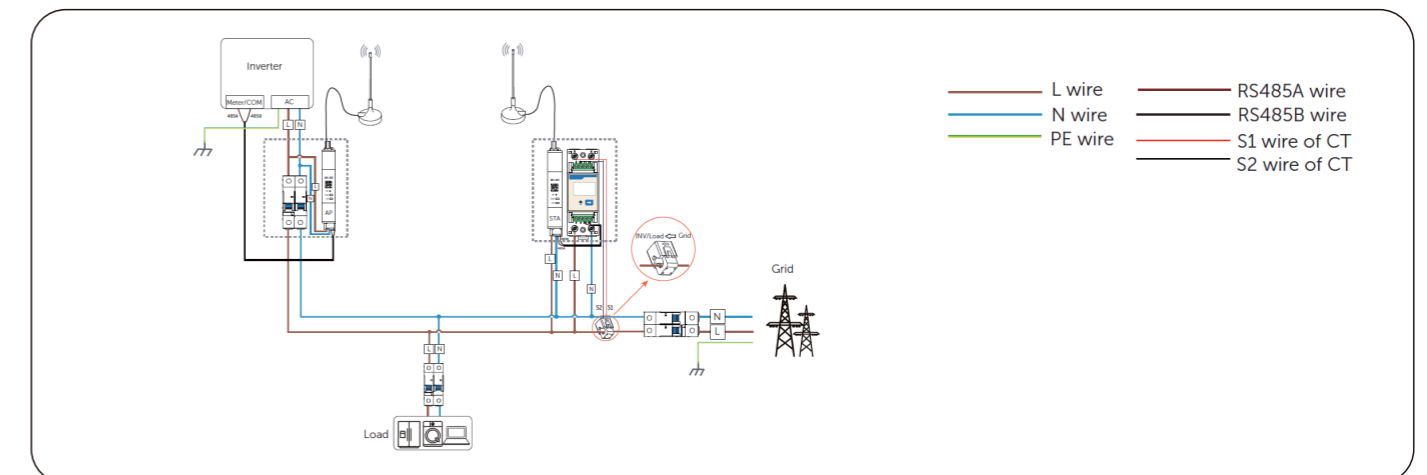
Model	Wi-BR
Working Method	AP / STA
Protocol	IEEE 802.11ah
Communication Terminal	RS485 * 1 (for each model)
Phase voltage	85 Vac-277 Vac
Max. power consumption	2 W
Operating temperature	-25°C to +55°C
Dimensions	18 mm x 98 mm x 66 mm
Mounting type	DIN rail
Ingress protection rating	IP 20
Altitude	≤4000 m

Performance Comparison List

The following data is obtained through actual testing using inverter equipped with electricity meter in Solax laboratory. The actual on-site transmission distance may vary depending on the installation environment.

Parameter	SolaX	Wi-Fi4/5/6	LORA	Zigbee
Transmission distance	300 m	100 m	130 m	20 m
Penetration floor	4	1	3	1
Security	Best	Best	Poor	Good
Anti-interference	Best	Best	Poor	Good

Installation



*The product images are for illustration only and may have slight differences from the actual product.

*V1.0. Information may be subject to modify without notice. 650.00055.00

*V1.1. Information may be subject to modify without notice. 650.00037.00