



**S**olar  
**O**ptimal  
**L**ong Life-cycle  
**A**ccurate  
**X**traordinary



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

# 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



reddot winner 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

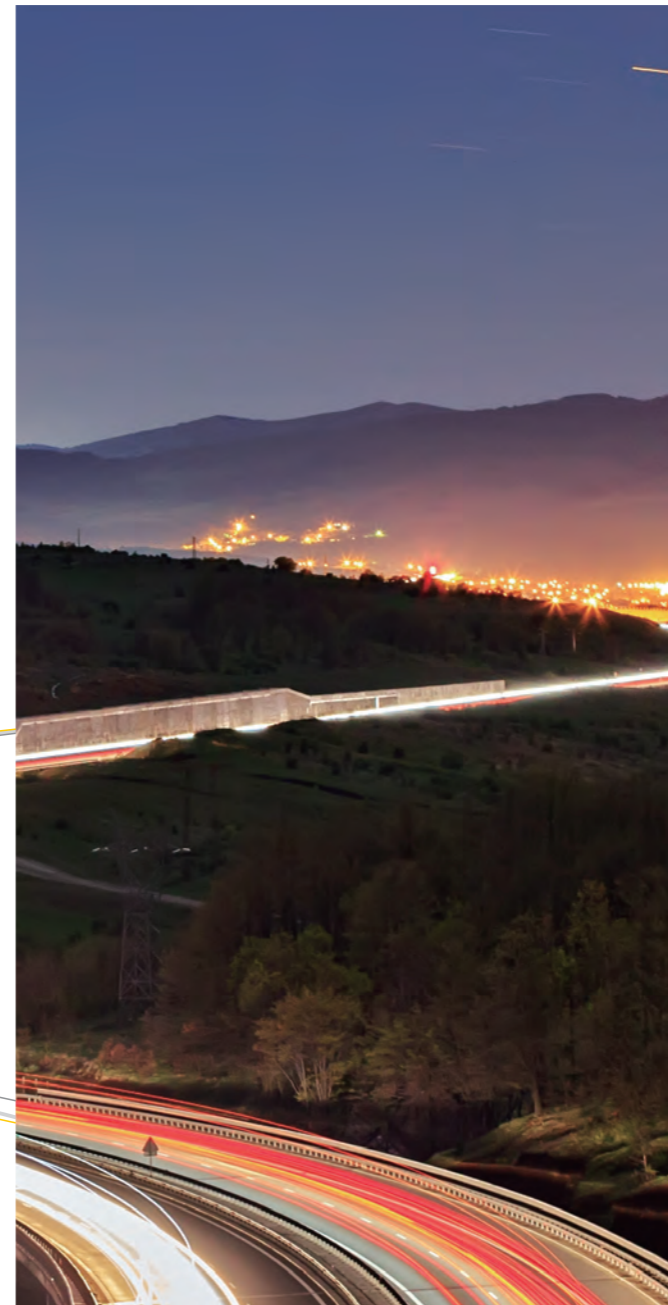
- J1ESS-HB58 awarded first Japan S-Mark certification
- TÜV Rheinland Witness Lab Qualification

## 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

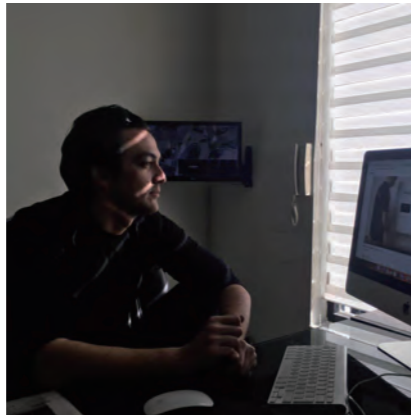
### Training Support

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 PROJECTS





# SOLAX CLOUD

Everything you need to manage your power



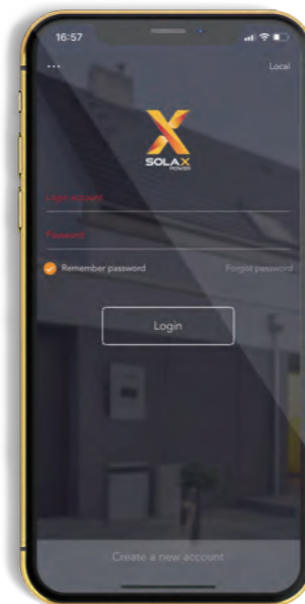
- All Platforms
- Monitor Usage
- Real-time Information
- Automatic Notifications
- Simple Interface

## 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

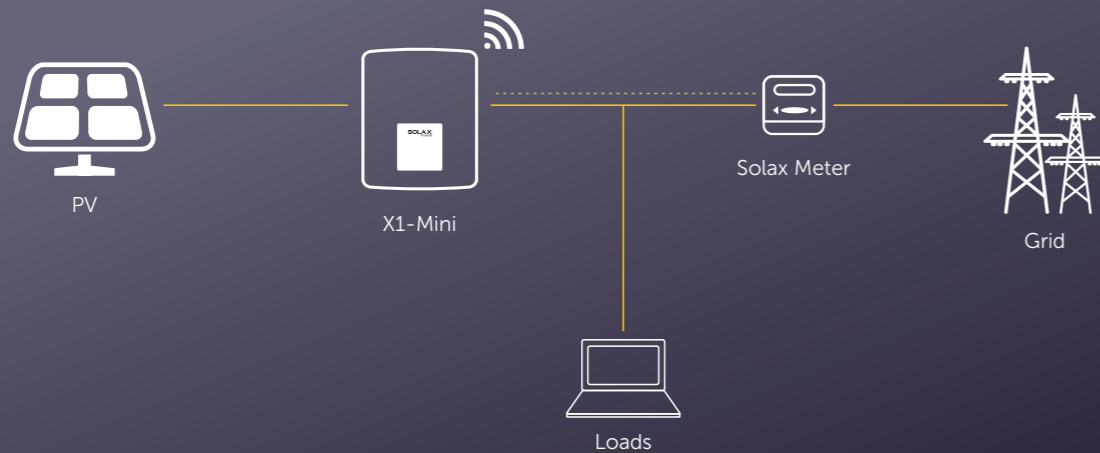
## SINGLE-PHASE ON-GRID INVERTER

### 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

X1-0.6-S-D(L) X1-0.7-S-D(L) X1-1.1-S-D(L) X1-1.5-S-D(L) X1-2.0-S-D(L) X1-2.5K-S-D(L) X1-3K-S-D(L) X1-3.3K-S-D(L) X1-3.6K-S-D(L)  
X1-0.6-S-N(L) X1-0.7-S-N(L) X1-1.1-S-N(L) X1-1.5-S-N(L) X1-2.0-S-N(L) X1-2.5K-S-N(L) X1-3K-S-N(L) X1-3.3K-S-N(L) X1-3.6K-S-N(L)

	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)
<b>DC INPUT</b>									
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
<b>AC OUTPUT</b>									
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								
<b>SYSTEM DATA</b>									
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								
<b>PROTECTION</b>									
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								
<b>STANDARD</b>									
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

# 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

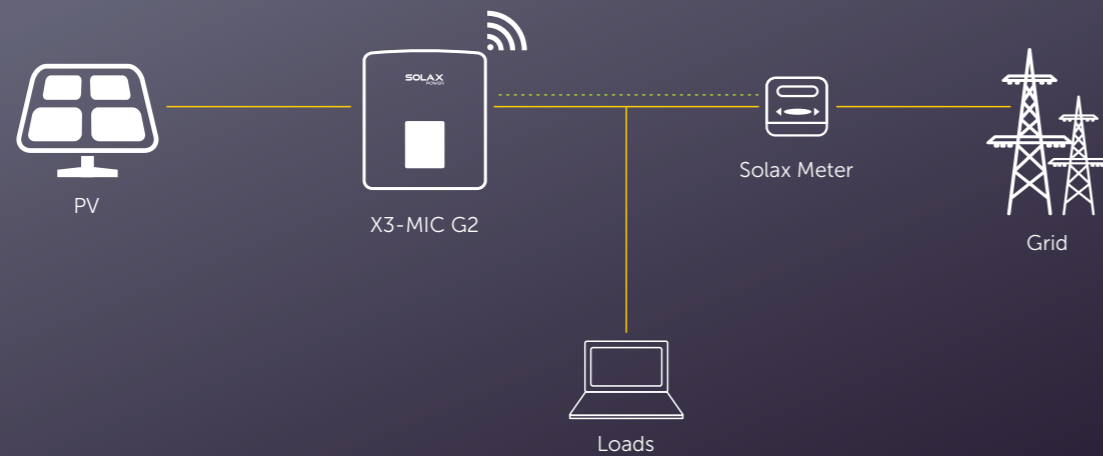
### Smart

- 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

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

## DC INPUT

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) <sup>①</sup>	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 <sup>①</sup>	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 <sup>①</sup>	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 voltage 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

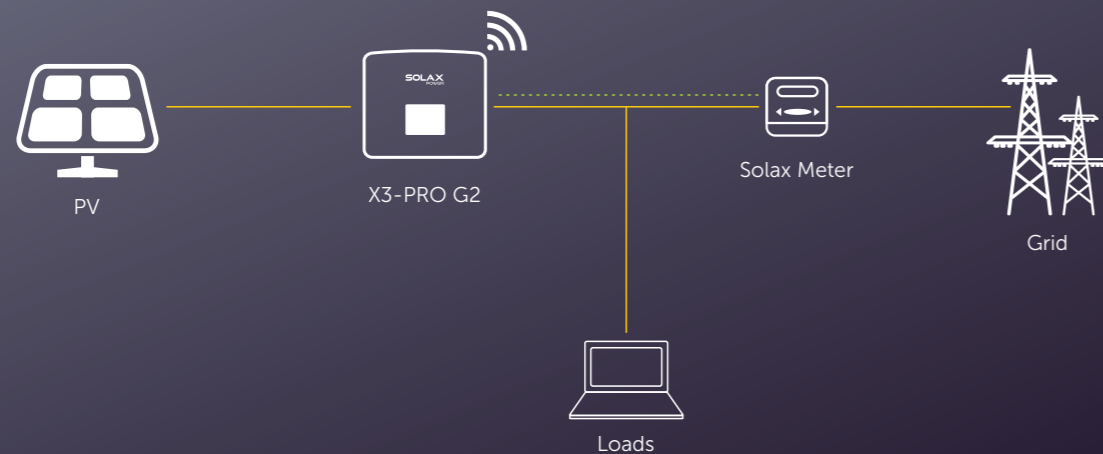
### Smart

- 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
<b>DC INPUT</b>								
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
<b>AC OUTPUT</b>								
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							
<b>SYSTEM DATA</b>								
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							
<b>PROTECTION</b>								
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							
<b>STANDARD</b>								
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

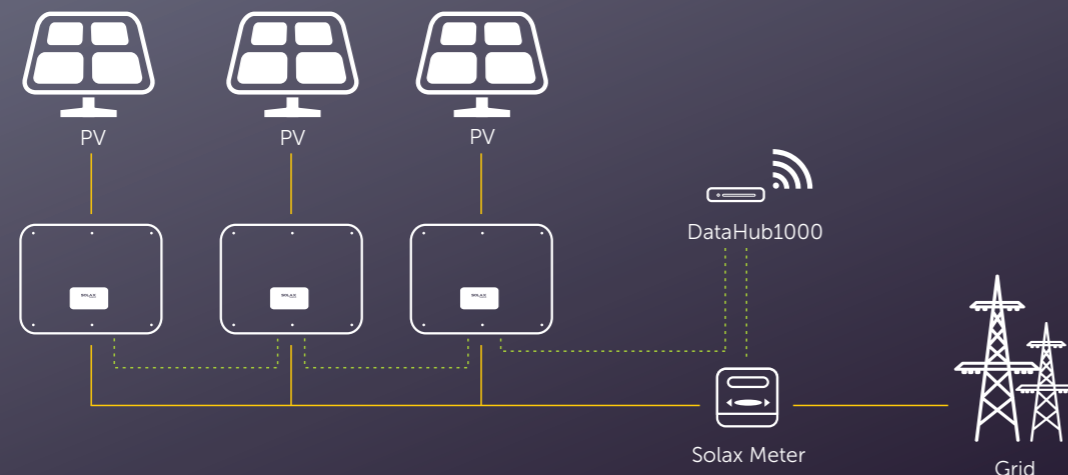
### Safety & Reliability

- 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
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### 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
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### 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

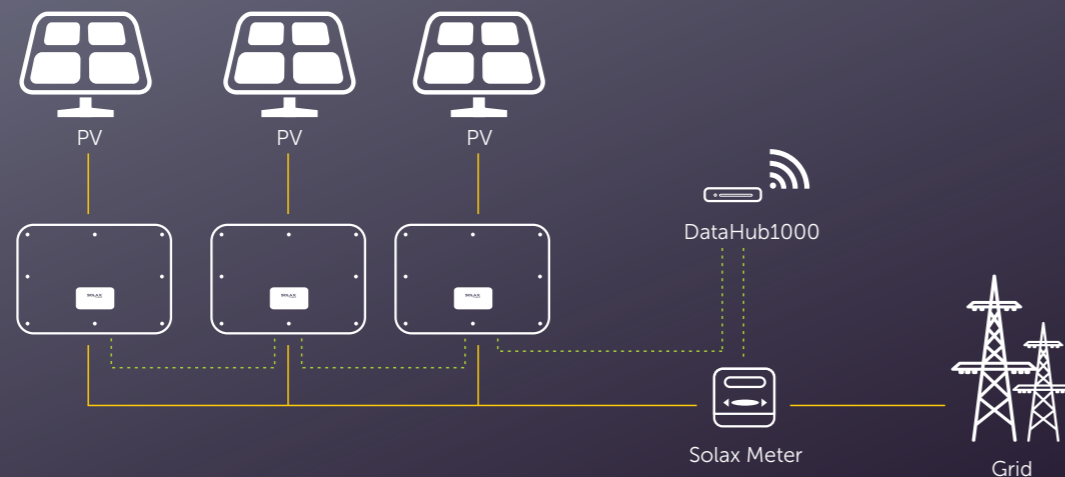
### Safety & Reliability

- 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

# 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

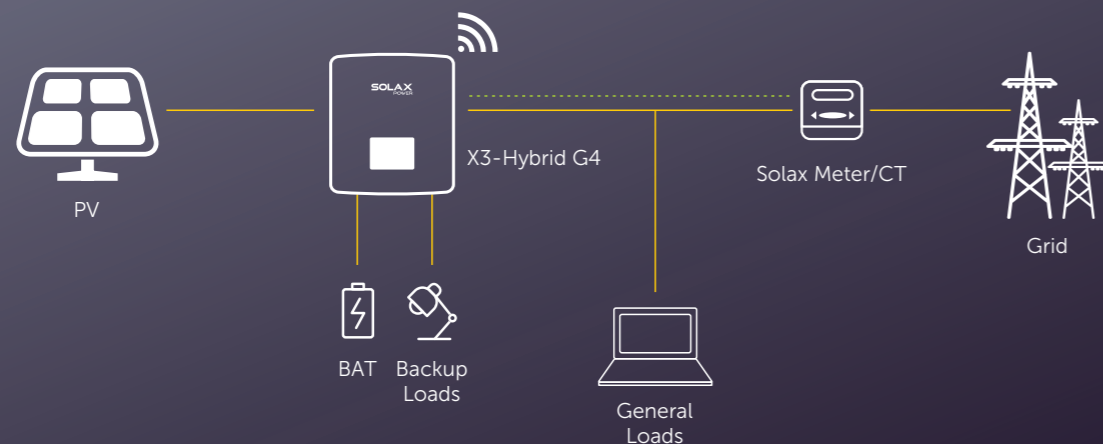
### Intelligent

- 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 [%] <sup>①</sup>	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
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
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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%.

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

# 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

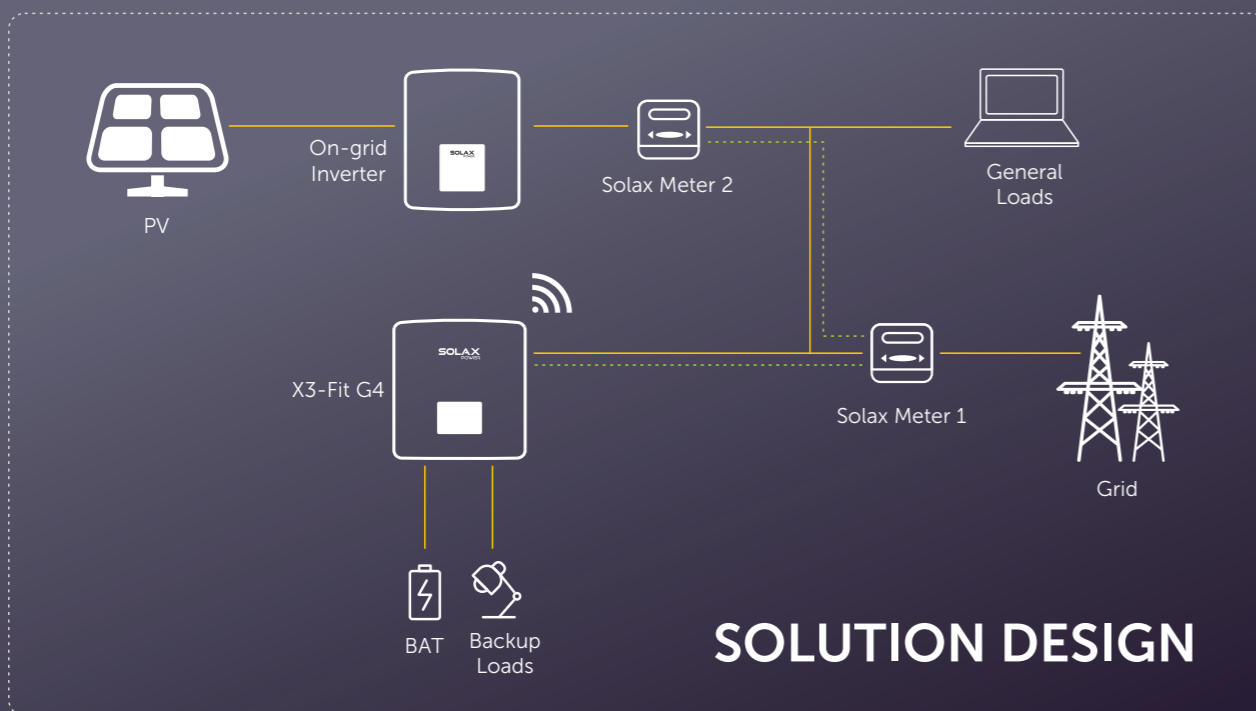
- Store the surplus energy to battery
- Less energy loss on battery to inverter

### 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



# 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

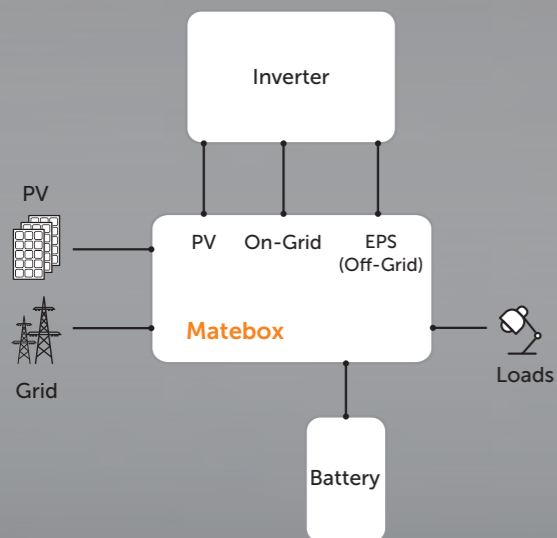
Internal consumption (night) [W]	<40W for standby, <5W for idle			
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### STANDARD

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			

\*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 install one module on the top of another, and connect all the cables which are already well-sorted in the Matebox in different ports.

## X1-MATEBOX



<b>PV</b>	
Max. input voltage [Vdc]	600
Max. short circuit current (A/B) [A]	18/18
<b>BATTERY</b>	
Battery voltage range [V]	80-480
Max. charge/discharge current [A]	30
<b>ON-GRID(Inverter)</b>	
Rated voltage [Vac], frequency [Hz]	220/230/240, 50/60
Max. on-grid current [A]	32.6
<b>OFF-GRID(Inverter)</b>	
Rated voltage [Vac], frequency [Hz]	230, 50/60
Rated current [A]	32.6
<b>GRID(Utility)</b>	
Rated grid voltage [Vac], frequency [Hz]	220/230/240, 50/60
Max. input current [A]	60
<b>LOAD</b>	
Rated voltage [Vac], frequency [Hz]	220/230/240, 50/60
Max. current [A]	60
<b>ENVIRONMENT LIMIT</b>	
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)
<b>OTHER</b>	
Cooling concept	Nature cooling
<b>DIMENSION AND WEIGHT</b>	
Dimensions [mm]	482x437x185
Net weight [kg]	10.5

## X3-MATEBOX BASIC



<b>PV</b>	
Max. input voltage [Vdc]	1000
Max. short circuit current (A/B)[A]	30/18
<b>BATTERY</b>	
Battery voltage range [V]	180~650
Max. charge/discharge current [A]	30
<b>ON-GRID (Inverter)</b>	
Rated voltage[Vac], frequency [Hz]	380/400/415, 50/60
Max. Grid (INV) input/output current [A]	32/32
<b>OFF-GRID (Inverter)</b>	
Rated voltage [Vac], frequency [Hz]	380/400/415, 50/60
Max. current [A]	24.1
<b>GRID (Utility)</b>	
Rated grid voltage [Vac], frequency [Hz]	380/400/415, 50/60
Max. input/output current [A]	32/32
<b>LOAD</b>	
Rated voltage[Vac], frequency [Hz]	380/400/415, 50/60
Max. current [A]	24.1
<b>ENVIRONMENT LIMIT</b>	
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)
<b>OTHER</b>	
Cooling concept	Nature cooling
<b>DIMENSION AND WEIGHT</b>	
Dimensions [mm]	533x397x204
Net weight [kg]	7.5

## X3-MATEBOX ADVANCED



<b>PV</b>	
Max. input voltage [Vdc]	1000
Max. short circuit current (A/B) [A]	30/18
<b>BATTERY</b>	
Battery voltage range [V]	180~650
Max. charge/discharge current [A]	30
<b>ON-GRID (Inverter)</b>	
Rated voltage[Vac], frequency [Hz]	380/400/415, 50/60
Max. Grid (INV) input/output current [A]	24.1/24.1
<b>OFF-GRID (Inverter)</b>	
Rated voltage [Vac], frequency [Hz]	380/400/415, 50/60
Max. current [A]	24.1
<b>GRID (Utility)</b>	
Rated grid voltage [Vac], frequency [Hz]	380/400/415, 50/60
Max. input/output current [A]	63/24.1
<b>LOAD</b>	
Rated voltage [Vac], frequency [Hz]	380/400/415, 50/60
Max. current [A]	63
<b>ENVIRONMENT LIMIT</b>	
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)
<b>OTHER</b>	
Cooling concept	Nature cooling
<b>DIMENSION AND WEIGHT</b>	
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<sup>①</sup>
- Safe type of LiFePO<sub>4</sub> 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



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 <sup>①</sup> [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] <sup>②</sup>			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)			Buttonx1+Breakerx1	
Certificate			CE, IEC62619, UN38.3, IEC62040, UKCA	
Hazardous materials classification			Class 9	
Dimensions (WxHxD) [mm]			MC0600: 482.5x173.5x153 HV10230: 482.5x471.5x153	
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

① Test conditions: 90% DOD, 0.2C charger & discharger @+25 °C  
 ② Max. 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 LiFePO<sub>4</sub> 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 <sup>[1]</sup> [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



T-BAT-SYS-HV-R2.5

## Features

- Safe LiFePO<sub>4</sub> 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

### 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



T-BAT-SYS-HV-R3.6

## Features

- Safe LiFePO<sub>4</sub> 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

### 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 <sup>[1]</sup> [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

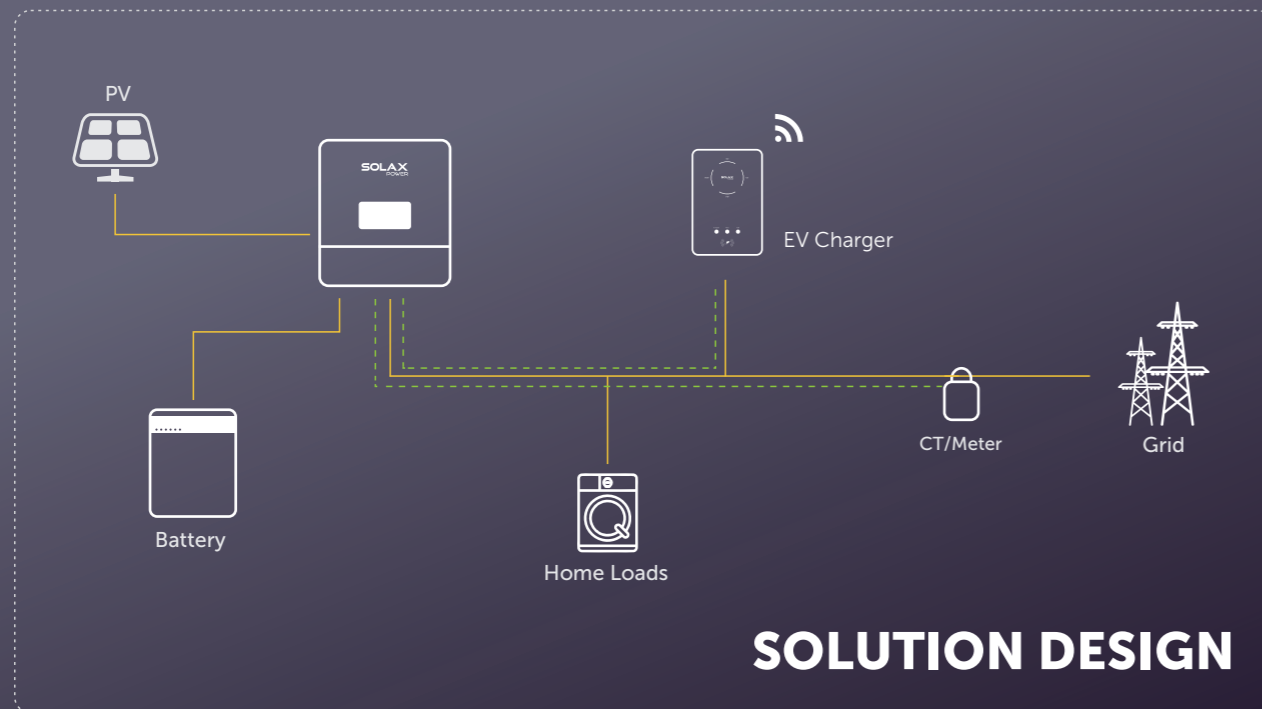
# SMART EV CHARGER

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<sup>①</sup>
- 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 Weigth [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		
Security Protection	Integral Earth Leakage Protection		Integrated current failure monitoring (30mA AC & 6mA DC)	
	Built-in PEN fault technology <sup>①</sup>		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><b>Green Mode:</b> 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><b>ECO Mode:</b> 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><b>Fast Mode:</b> 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.

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

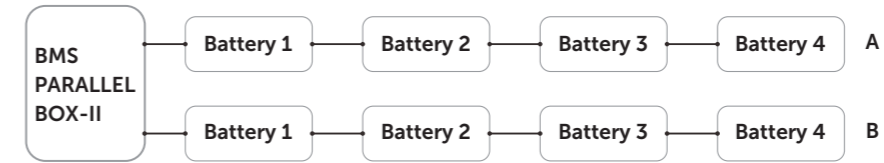


X3-PBOX-60kW-G2

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

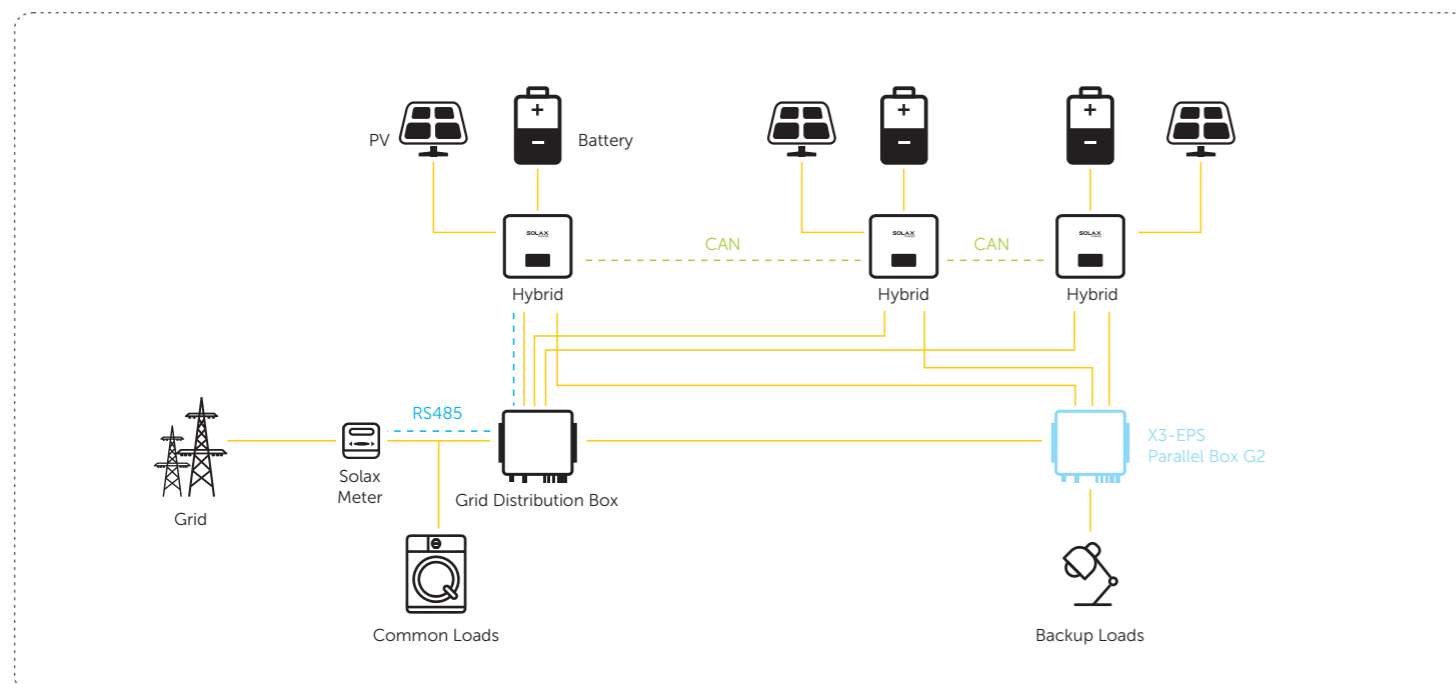
Dimensions (L x W x H) [mm]	368*310*140
Net weight [kg]	5.2
Expected life [years]	5

### 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

## 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



### 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	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

### 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  $\leq 1$  W

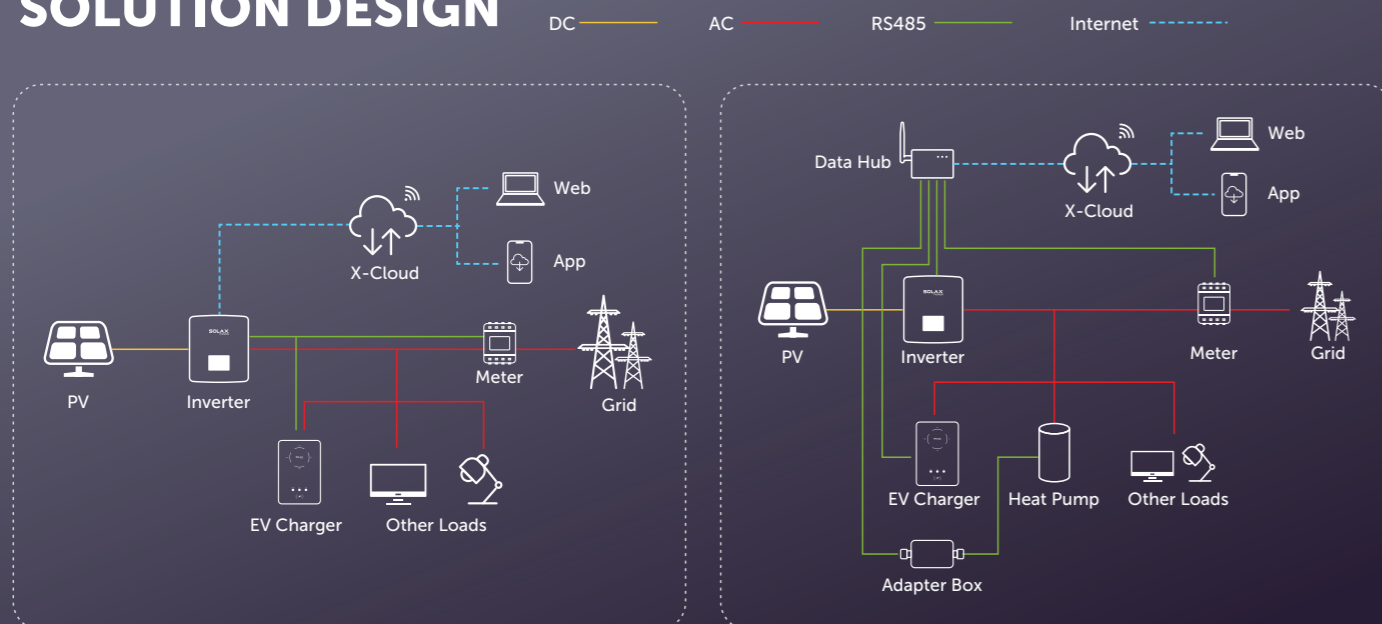
### Smart Energy

- 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



DDSU666  
5(80)A



DTSU666  
5(80)A



DDSU666-CT  
200A/5A



DTSU666-CT  
200A/5A

### General Data

Dimension (H x W x D)	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)
<b>Power Supply</b>				
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	$\leq 1$ W	$\leq 1.5$ W	$\leq 1$ W	$\leq 1.5$ W
<b>Measurement Range</b>				
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)
<b>Measurement Accuracy</b>				
Accuracy Class	Class B	Class B	Class C	Class C
<b>Communication</b>				
Interface	RS485			
Baud rate	9,600 bps			
Communication protocol	Modbus-RTU			
<b>Environment</b>				
Operating temperature range	-25°C ~ +55°C	-10°C ~ +45°C	-25°C ~ +55°C	-10°C ~ +45°C
Storage temperature range	-25°C ~ +55°C	-25°C ~ +75°C	-25°C ~ +55°C	-25°C ~ +75°C
Operating humidity	< 75 % non condensing			
<b>Others</b>				
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