

# X3-ESS G4

## SUPPORT 150% OVERSIZED PV POWER STORE EXCESS ENERGY TO BATTERY

SolaX's new X-ESS G4 can help you 100% usage of your daily solar energy with excess energy being stored in the Triple Power batteries for night or backup use.

## ELEGANT DESIGN

All-in-one home energy system  
Blends in beautifully

## FAST BATTERY CHARGING SPEED

X-ESS G4 only takes ONE hour to fully charge the Triple Power battery.

With the shorter charging time, you can store more power in the same time period.

## WORKING UNDER EXTREMELY COLD

Working in full load under extreme cold weather -30°C/-22°F

## 1 PERSON 30 MINUTES INSTALLATION

Faster and easier installation

## HIGH RELIABILITY

Stable performance in harsh environment

- \* Passed the HALT test
- \* Extreme high and low temperature test
- \* Salt spray test
- \* Aging test with full working load



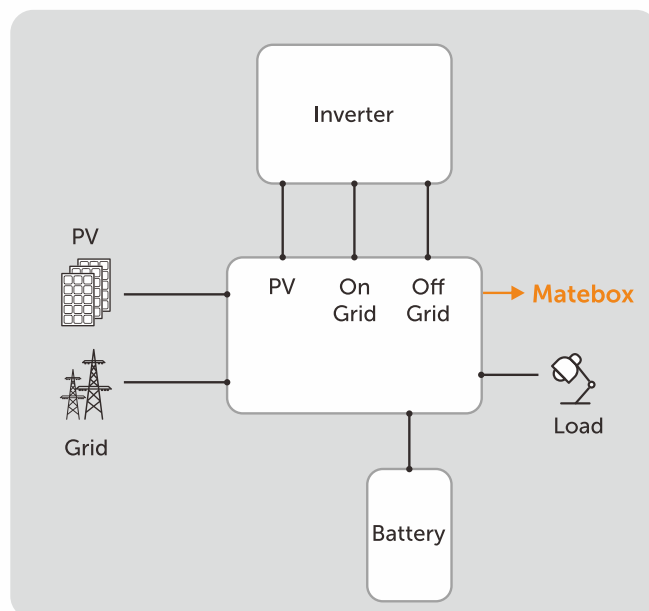
# X3-HYBRID G4

## THREE PHASE

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 input power [Wp]	8000	10000	12000	15000	18000	18000
Max. PV input voltage [V]	1000	1000	1000	1000	1000	1000
Startup voltage [V]	160	160	160	160	160	160
Nominal input voltage [V]	630	630	630	630	630	630
MPP tracker 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 A/input B) [A]	14/14	14/14	26/14	26/14	26/14	26/14
Max. short circuit current(input A/input B) [A]	16/16	16/16	30/16	30/16	30/16	30/16
AC INPUT & OUTPUT						
Nominal AC output power [W]	5000	6000	8000	10000	12000	15000
Nominal AC output current [A]	7.2	8.7	11.6	14.5	17.5	21.8
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/Grid frequency range [Hz]	50/60					
Displacement power factor	0.8 leading~0.8 lagging					
THDi (rated power) [%]	<3					
BATTERY DATA						
Battery Type	Li-ion battery					
Battery voltage range [V]	180~650					
Max. continuous charge/discharge current [A]	30					
OFF-GRID 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; 380/220; 50/60					
THDv(Linear Load) [%]	<3					
Switch time to off-grid mode [ms]	<10					
Parallel Operation	YES, 10					
SYSTEM DATA						
Max. efficiency [%]	98.00					
Euro. efficiency [%]	97.70					
Battery charge/discharge efficiency [%]	98.5%/97.00					
Standby consumption [W] @Night	<40W for hot standby,<5W for cold standby					
Ingress protection	IP65					
Operating temperature range [°C]	-35~60 (derating at +45°C, charge derating at +35°C)					
Max. operation altitude [m]	≤3000					
Humidity [%]	0~100 (condensing)					
Typical noise emission [dB]	<35	<35	<35	<35	<45	<45
Storage temperature [°C]	-40~65					
Dimensions[WxHxD] [mm]	503*199*503					
Weight [kg]	30					
Cooling concept	Nature Convection				Fan	
Communication interfaces	Meter/ WIFI(optional)/ DRM/ USB/ ISO alarm/ RTU485/ NTC/ BMS/ LCD/ RS485					
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/VDE 0124 and so on					

# X3-MATEBOX BASIC

For the new X3-ESS G4, we get rid of the complicated wiring work by laying all the wires in the Matebox. All you need to do is just to install one module on the top of another, and connect all the cables which are already well-sorted in the Matebox in different ports.



X3-Matebox

<b>PV</b>	
Max. input voltage[Vdc]	1000
Max. short circuit current[A]	30/16
No. of MPP trackers	2
<b>BATTERY</b>	
Battery voltage range [V]	180~650
Max. charge/discharge current [A]	30
<b>ON-GRID</b>	
Rated voltage[Vac], frequency[Hz]	380/400/415, 50/60
Max. apparent Grid(INV) input/output power[VA]	20000/20000
Max. Grid(INV) input/output current[A]	32/32
<b>OFF-GRID</b>	
Rated voltage [Vac], frequency [Hz]	400, 50/60
Rated power [VA]	15000
Rated current [A]	24.1
<b>GRID</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>	
IP class	IP54
Protection class	Class I
Operating temperature range [°C]	-25~+60°C (derating at +45°C)
Storage temperature [°C]	-40~+70°C
Humidity [%]	0~100 (condensing)
Altitude[m]	<3000
Over voltage category	III(AC), II(DC)
<b>OTHER</b>	
Cooling concept	Natural
<b>DIMENSION AND WEIGHT</b>	
Dimensions [mm]	533*397*204
Net weight [kg]	7.5

# Triple Power 3.0 Battery

- Safest LiFePO<sub>4</sub> battery (30 Ah)
- Working temperature range:-30~50°C
- Smart temperature balancing
- Cycle life>6000 times
- IP65 protection level
- Less self consumption
- Quick installation
- No toxic heavy metals or caustic materials



T-BAT H 6.0\*

Nominal voltage [V]	204.8	
Operating voltage range [V]	180-232	
Total energy [kWh]	6.1	
Usable energy [kwh]	5.5	
Rated capacity [Ah]	30	
Standard power [kW]	5.1	
Max. power [kW]	6.1	
Recommend charge/discharge current [A]	25	
Max. charge/discharge current [A]	30	
Battery roundtrip efficiency	95%	
Cycl life [90% DOD]	6000 Cycles	
Expected life time / Warranty [year]	10	
Available charge/discharge temperature range [°C]	-30 to 50	
Storage temperature [°C]	-20 to 50 (3 months)	0 to 40 (1 year)
Humidity [%]	0~100	
Altitude [m]	Below 3000	
Protection	IP65	
System to Inverter	RS485/CAN2.0	
Battery to battery/BMS	CAN2.0	
Master control capacity indicator	4LED (25%, 50%, 75%, 100%)	
Master control LED indicator (Working mode)	1 LED	
System switch (on/off)	Button*1+Breaker*1	
Certificate	CE/IEC62619/UN38.8/IEC62040	
Hazardous materials classification	Class 9	
Dimensions(WxHxD) [mm]	MC0600: 482*174*148	
	HV10230: 482*472*148	
Weight [kg]	MC0600: 7.5kg	
	+2*HV10230: 69kg	

\* MC0600:Master Box (one MC0600 can be connected 1~4 HV10230)

\* HV10230:Slave Battery Pack