

Triple Power 3.0 Battery

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



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%
Cycle 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/UN38.3/IEC62040/UKCA
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



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*Can be modified without notice (V1)



The 4th Generation Energy Storage System from Solax

X3-ESS G4



www.solaxpower.com

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

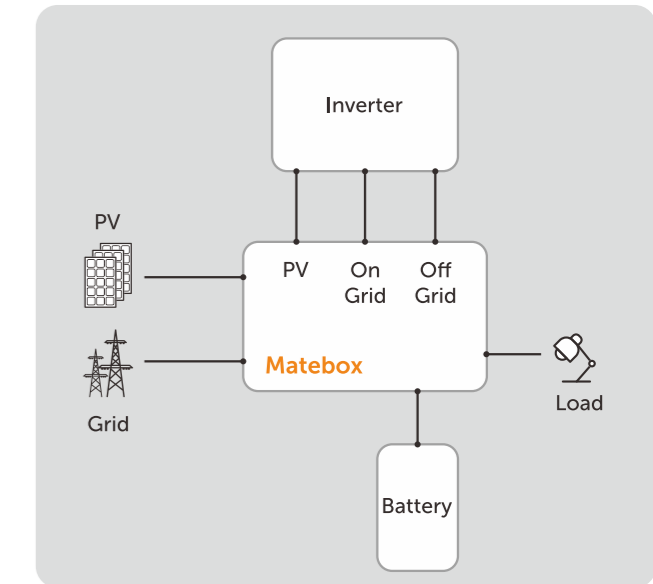
X3-HYBRID-5.0-D X3-HYBRID-6.0-D X3-HYBRID-8.0-D X3-HYBRID-10.0-D X3-HYBRID-12.0-D X3-HYBRID-15.0-D
X3-HYBRID-5.0-M X3-HYBRID-6.0-M X3-HYBRID-8.0-M X3-HYBRID-10.0-M X3-HYBRID-12.0-M X3-HYBRID-15.0-M

DC INPUT	8000	10000	12000	15000	18000	18000
Max. PV array input power [Wp]	8000	10000	12000	15000	18000	18000
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 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 (14000 for PEA)
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					
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 (Details refer to website)					
SYSTEM DATA						
Max. efficiency [%]	98.0					
Euro. efficiency [%]	97.7					
Battery charge/discharge efficiency [%]*1	98.5/97.5					
Standby consumption [W] @Night	<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					
Typical noise emission [dB]	<35	<35	<35	<35	<45	<45
Storage temperature [°C]	-40~+70					
Dimensions(WxHxD) [mm]	503*503*199					
Net weight [kg]	30					
Cooling concept	Nature cooling			Smart cooling		
Communication interfaces	CT/ Meter/ Pocket Wi-Fi(optional)/ DRM/ USB/ 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/PEA and so on					

*1: PV to BAT Max. efficiency 98.5%, BAT to AC Max. efficiency 97.0%

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 different ports.



X3-Matebox Basic

PV	1000
Max. input voltage[Vdc]	1000
Max. short circuit current (A/B) [A]	30/16
BATTERY	
Battery voltage range [V]	180~650
Max. charge/discharge current [A]	30
ON-GRID	
Rated voltage[Vac], frequency[Hz]	380/400/415, 50/60
Max. Grid(INV) input/output current[A]	32/32
OFF-GRID	
Rated voltage [Vac], frequency [Hz]	380/400/415, 50/60
Rated current [A]	24.1
GRID	
Rated grid voltage[Vac], frequency[Hz]	380/400/415, 50/60
Max. input/output current[A]	32/32
LOAD	
Rated voltage [Vac], frequency [Hz]	380/400/415, 50/60
Max. current [A]	24.1
ENVIRONMENT LIMIT	
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)
OTHER	
Cooling concept	Natural
DIMENSION AND WEIGHT	
Dimensions [mm]	533*397*204
Net weight [kg]	7.5