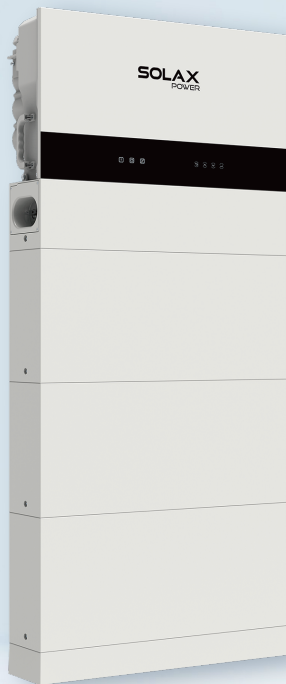


Three-Phase AC-Coupling ESS



X3-IES-A

5kW / 10kW / 15kW



All in one design

- Plug and play, expandable and installation easily
- Light weighted, sleek and aesthetically pleasing
- 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)



Safe and Reliable

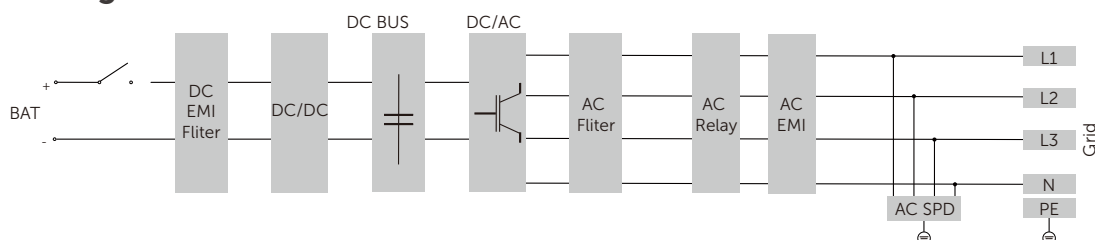
- IP66 protection level
- AC SPD type II, always guarding the inverter



Economically Efficient

- Support intelligent loads management^①(e.g., Heat pump, EV charger), combining with 7×24h TOU to achieve efficient peak shaving
- Support Wireless meter solution

Circuit Diagram



① DataHub1000 required

X3-IES-5K-A

X3-IES-10K-A

X3-IES-15K-A

INPUT AC			
Nominal AC power	5000 VA	10000 VA	15000 VA
Max. AC current	8 A	14.5 A	24 A
Rated grid frequency	50 Hz / 60 Hz		
Power factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)		
OUTPUT AC (On-Grid)			
Nominal AC power	5000 VA	10000 VA (AS4777 9999)	15000 VA
Max. apparent AC power	5500 VA	10000 VA (AS4777 9999)	16500 VA
Rated grid voltage(AC voltage range)	3P4W, 380 / 400 V		
Rated grid frequency	50 Hz / 60 Hz		
Rated AC output current	7.3 A	14.5 A	21.8 A
Max. AC current	8.4 A	15.2 A	25 A
Displacement power factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)		
Total harmonic distortion (THDi, rated power)	< 3 %		
BATTERY			
Battery voltage range	80 ~ 800 V		
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	LFP		
Nominal capacity / Nominal capacity ^①	5.1 kWh / 50 Ah		
Usable energy ^②	4.6 kWh		
Standard power	3 kW		
Max power	5.1 kW		
Max. charge / discharge current ^③	50 A		
Cycle life	> 6000 Cycles		
Warranty	10 Years		
Safety	CE, RCM, TUV (IEC62619), RoHS, REACH		
TBMS-MCS0800E dimensions(W × H × D) / Weight	730 × 165 × 150 mm / 9.3 kg		
TP-HS50E dimensions(W × H × D) / Weight	730 × 318 × 150 mm / 47 kg		
Base dimensions(W × H × D) / Weight	730 × 75 × 150 mm / 3.9 kg		
Series box dimensions(W × H × D) / Weight	167 × 91.5 × 121 mm / 1.3 kg		
GENERAL DATA (INVERTER)			
Dimensions (W × H × D)	717 × 405 × 209.5 mm		
Weight	32 kg		
Operating temperature range	- 35 ~ 60 °C (derating at +45°C)		
Protection class	IP66		
Relative humidity	4 ~ 100% RH (condensing)		
Storage temperature	- 40 ~ 65 °C		
Noise emission (typical)	< 33 dB(A)		
PROTECTION			
SPD	Type II, AC		
STANDARD			
Safety	IEC62477 / 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 Test conditions: 25°C, 100% depth of discharge (DoD), 0.2C charge & discharge.

② System usable energy may vary with inverter different setting.

③ 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.

*Manufactured in China