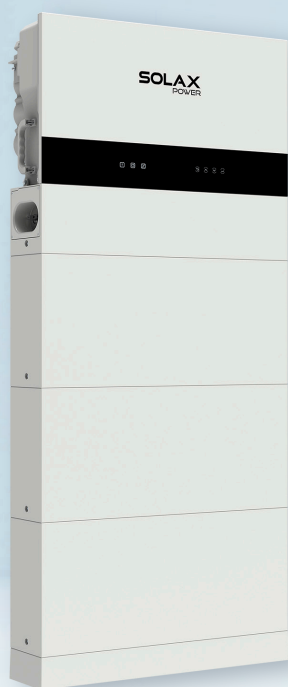


Three-Phase AC-Coupling ESS



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
- AFCI optional

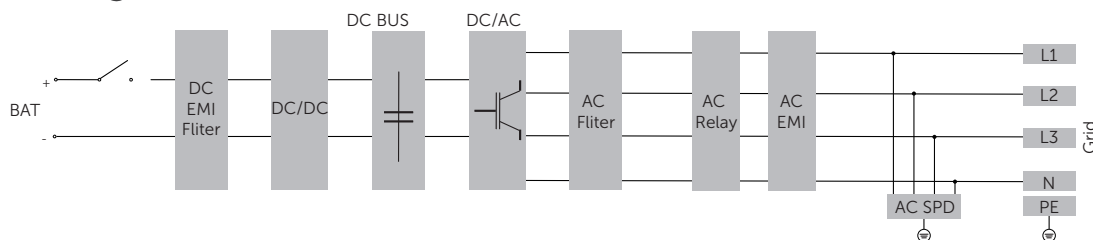


Economically Efficient

- Support intelligent loads management^①(e.g., Heat pump, EV charger), combining with 7x24h TOU to achieve efficient peak shaving
- Support Wireless meter solution

① DataHub1000 required

Circuit Diagram



X3-IES-5K-A
X3-IES-10K-A
X3-IES-15K-A

INPUT AC			
Nominal AC power [VA]	5000	10000	15000
Max. AC current [A]	8	14.5	24
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	10000 (AS4777 9999)	15000
Max. apparent AC power [VA]	5500	10000 (AS4777 9999)	16500
Rated grid voltage(AC voltage range) [V]	3P4W, 380 / 400		
Rated grid frequency [Hz]	50 / 60		
Rated AC output current [A]	7.3	14.5	21.8
Max. AC current [A]	8.4	15.2	25
Displacement power factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)		
Total harmonic distortion (THDi, rated power) [%]	< 3		
BATTERY			
Battery voltage range [V]	160 ~ 800		
Communication interfaces	CAN / RS485		
BMS module	TBMS-MCS0800E		
Battery module	TP-HS50E		
Composition	TBMS-MCS0800E + TP-HS50E x n + Base Dimensions + Series Box (Required for two columns)		
Battery type	Li-ion (LFP)		
Nominal capacity [kWh] / Nominal capacity [Ah] ①	5.1 / 50		
Usable energy [kWh] ②	4.6		
Standard power [kW]	3		
Max power [kW]	5.1		
Max. charge / discharge current [A] ③	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		
GENERAL DATA (INVERTER)			
Dimensions (W x H x D) [mm]	717 x 405 x 209.5		
Operating temperature range [°C]	- 35 to 60 (derating at +45)		
Protection class	IP66		
Relative humidity [%]	0 to 100 (condensing)		
Storage temperature [°C]	- 40 to 65		
Noise emission (typical) [dB(A)]	< 33		
PROTECTION			
AFCI	OPT		
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.

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