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V1.2. Information may be subject to modify without no 650.00038.00



Economic

- Maximum 200% oversize and 200% PV input power
- Maximum 36A input current per MPPT, support high power solar panel

Intelligent

- Al ready, forecasting solar generation and home consump tion, smart energy management strategy
- VPP ready, SolaX cloud supports resource aggregator (2030.5, OpenADR)
- Support smart scene function, intelligent loads manage ment(e.g., Heat pump, EV charger)
- Micro-grid ready, supporting a variety of scenarios, both on-grid and off-grid, balancing power between PCS and Hybrid in real time
- Support 7×24h scheduling mode
- Support Wireless meter solution
- Dual independent battery ports are ready to expand battery capacity free

Robust

 Robust back-up ability, switch over time <10ms, up to 200% EPS output for 10s, support half-wave loads

SOLAX

• Stronger, EPS operation without battery

SOLAX

Safe

- IP65 protection level
- AC&DC SPD type II, always guarding the inverter
- AFCI optional



X3-ULTRA (THREE PHASE)

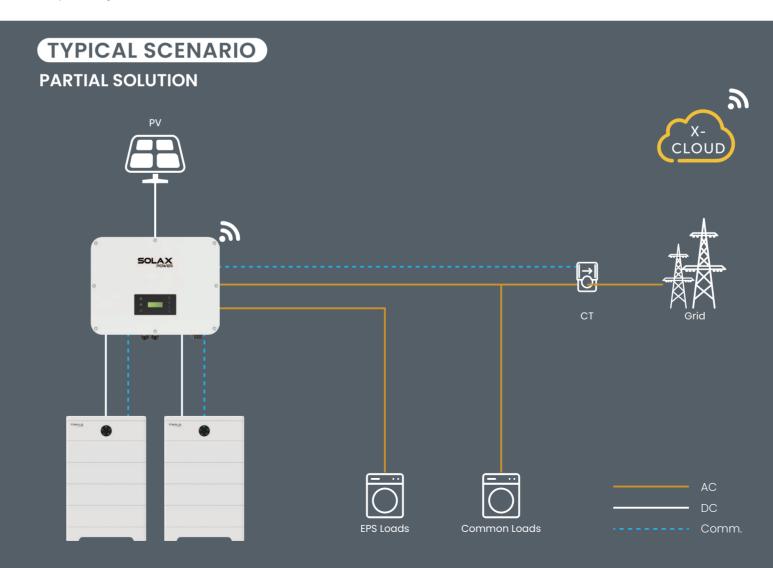
	X3-ULT-15K	X3-ULT-19.9K	X3-ULT-20K	X3-ULT-25K	X3-ULT-30K			
INPUT PV								
Max.recommended PV array power [Wp]	30000	40000	40000	50000	60000			
Max.input DC power [W]	30000	40000	40000	50000	60000			
Max.DC voltage [V]			1000					
Nominal DC operating voltage [V]			600					
No. of MPP trackers / Strings per MPP tracker	2(2/2)	2(2/2)	2(2/2)	3(2/2/2)	3(2/2/2)			
Max. input current (input PV1 / input PV2 / input PV3) [A] ⁽¹⁾	PV1: 36 / PV2: 36	PV1: 36 / PV2: 36	PV1: 36 / PV2: 36	PV1: 36 / PV2: 36 / PV3: 36	PV1: 36 / PV2: 36 / PV3: 36			
Max. short circuit current (input PV1 / input PV2 / input PV3) [A]	PV1: 45 / PV2: 45	PV1: 45 / PV2: 45	PV1: 45 / PV2: 45	PV1: 45 / PV2: 45 / PV3: 45	PV1: 45 / PV2: 45 / PV3: 45			
MPPT voltage range [V]	160 - 950	160 - 950	160 - 950	160 - 950	160 - 950			
Start output voltage [V]	200	200	200	200	200			
OUTPUT AC(On-Grid)								
Nominal AC power [VA]	15000 (AS 4777 14999)	19999	20000	25000	30000 (AS 4777 29999)			
Max. apparent AC power [VA]	16500 (AS 4777 14999)	19999	22000	27500	30000 (AS 4777 29999)			
Rated grid voltage (AC voltage range) [V]			3P4W, 400 / 230					
Rated grid frequency [Hz]			50 / 60					
Nominal AC current [A]	21.8	29.0	29.0	36.3	43.5			
Max. AC current [A]	24.0	29.0	31.9	39.9	43.5			
Displacement power factor			1 (- 0.8 ~ 0.8)					
Total harmonic distortion (THDi, rated power) [%]			< 3					
INPUT AC								
Nominal AC power [VA]	15000	19999	20000	25000	30000			
Nominal AC current [A]	21.8	29.0	29.0	36.3	43.5			
Rated grid voltage (AC voltage range) [V]			3P4W, 400 / 230					
Rated grid frequency [Hz]			50 / 60					
BATTERY								
Battery type			Lithium - ion					
Battery voltage range [V]			180 - 800					
Max. charge / Discharge current [A]			60 (30 × 2)					
EPS OUTPUT(WITH BATTERY)								
EPS peak power [VA]			2 time of rated power, 10)s				
EPS rated power [VA]	15000	19999	20000	25000	30000			
EPS rated voltage [V], Frequency [Hz]			400 / 230; 50 / 60					
EPS rated current [A]	21.8	29.0	29.0	36.3	43.5			
Switchover time [ms]			< 10					
Total harmonic distortion (THDv, linear Load) [%]			< 3					
POWER CONSUMPTION								
Internal consumption (night) [W]			< 5					
PROTECTION								
Anti-Islanding protection			Yes					
DC reverse polarity protection			Yes					
Insulation monitoring			Yes					
Residual current monitoring			Yes					
AC overcurrent protection			Yes					
AC short-circuit protection			Yes					
AC overvoltage protection			Yes					
Over-heat protection	Yes							
Battery reverse charging from grid	Yes							
Surge protection	Type II, DC and AC							
			.,,					



X3-ULTRA (THREE PHASE)

	X3-ULT-15K	X3-ULT-19.9K	X3-ULT-20K	X3-ULT-25K	X3-ULT-30K			
EFFICIENCY								
Max. efficiency / European efficiency	98.0% / 97.7%	98.0% / 97.7%	98.0% / 97.7%	98.0% / 97.7%	98.0% / 97.7%			
Rated battery charge / Discharge efficiency	98.5% / 97.0%	98.5% / 97.0%	98.5% / 97.0%	98.5% / 97.0%	98.5% / 97.0%			
STANDARD								
Safety	EN / IEC62109 - 1 / - 2							
EMC	EN61000 - 6 - 1 / 2 / 3 / 4; EN61000 - 3 - 11 / 12; EN 5011; IEC 62920							
Certification	VDE4105 / G99 / AS4777 / EN50549 / CEI 0 - 21 / IEC61727 / PEA / MEA / NRS - 097 - 2 - 1 / RD1699 / TOR							
GENERAL DATA								
Protection class	IP66							
Operating temperature range [°C]	- 35 ~ 60 (Derating above + 45)							
Relative humidity [%]	0 ~ 100							
Altitude [m]	< 3000							
Storage temperature [°C]	- 40 ~ +70							
Demensions (WxHxD) [mm]	696 × 526 × 240							
Weight [kg]	47							
Cooling concept	Smart cooling							
Topology	Transformerless							
Communication	Modbus (RS485), Meter (RS485), DI × 5, DO × 2							

①: Input PV3 only available for 25K and 30K.



WHOLE HOME BACKUP SOLUTION PV SOLAX SOLAX Meter AC DC Common Loads Common Loads

PARALLEL & GENERATOR INTEGRATED SOLUTION

