



A Profitable House



SolaX Single Phase High Voltage Storage System

Compared with normal storage system, the **high voltage** system's overall efficiency can be higher by about **8%**

X1-Hybrid Features

- Dual MPPT for different roof orientation
- IP65 rating for indoor and outdoor installation
- Support high power loads when the grid goes down
- Remote upgrade and maintenance
- Full working efficiency with temperature of 45°C
- Four intelligent working modes for different conditions

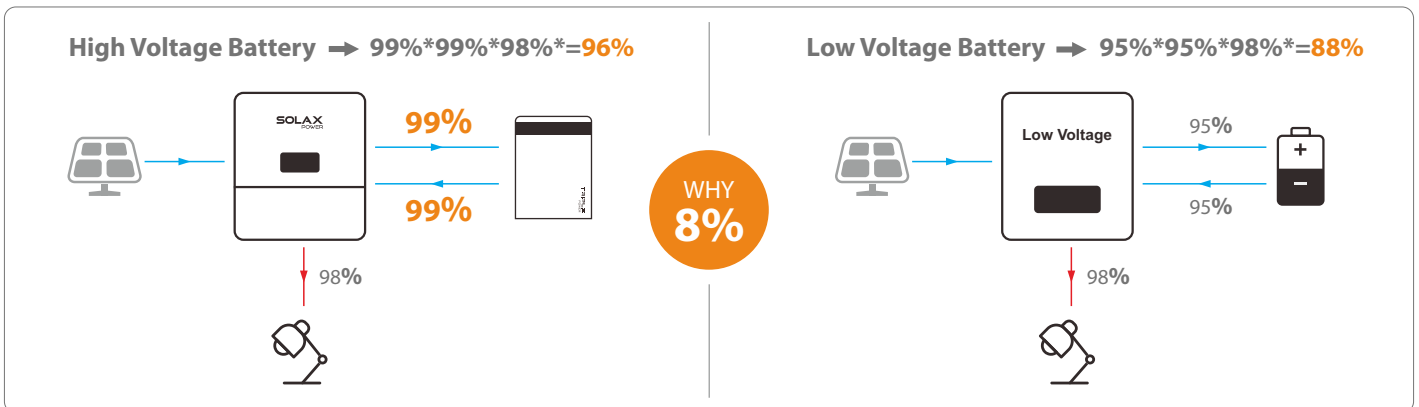
For Example: one X1 hybrid with 3PCS T58



Available energy in 3PCS T58
5.8kWh*3*90%(DOD)=15.66kWh

With degrading lifetime
15.66kWh*80%(capacity fading)=12.53kWh

You can save each cycle
12.53kWh*8%(efficiency)=1kWh





X1-HYBRID HV (SINGLE PHASE)

I: internal EPS function

X1-HYBRID-3.0-N-I

X1-HYBRID-3.7-N-I

X1-HYBRID-5.0-N-I

| | I Version | I Version | I Version |
|--|--|----------------------|----------------------|
| INPUT (DC) | | | |
| Max.PV array power [Wp] | 4500 | 5550 | 7500 |
| Max.recommended DC power[W] | A:3000 B:3000 | A:3000 B:3000 | A:3000 B:3000 |
| Max.DC voltage [V] | 600 | 600 | 600 |
| Nominal DC operating voltage [V] | 360 | 360 | 360 |
| Max. input current (input A/input B) [A] | 12/12 | 12/12 | 12/12 |
| Max. short circuit current (input A/input B) [A] | 14/14 | 14/14 | 14/14 |
| MPPT voltage range[V] | 125-550 | 125-550 | 125-550 |
| Start operating voltage[V] | 150 | 150 | 150 |
| No. of MPP trackers / Strings per MPP tracker | 2(1/1) | 2(1/1) | 2(1/1) |
| INPUT AC | | | |
| Max. apparent AC power[VA] | 7000 | 7680 | 9999 |
| Max. AC current[A] | 36.1 | 37.7 | 47.7 |
| Nominal grid voltage(AC voltage range)[V] | 220/230/240(180-270) | 220/230/240(180-270) | 220/230/240(180-270) |
| Nominal grid Frequency/range[Hz] | 50/60 | 50/60 | 50/60 |
| OUTPUT AC | | | |
| Nominal AC power [VA] | 3000 | 3680 | 4999 |
| Max. apparent AC power [VA] | 3300 | 4048 | 4999 |
| Nominal grid voltage(AC voltage range) [V] | 220/230/240(180-270) | 220/230/240(180-270) | 220/230/240(180-270) |
| Nominal grid frequency/range [Hz] | 50/60 | 50/60 | 50/60 |
| Nominal AC current [A] | 13 | 16 | 21.7 |
| Max. AC current [A] | 14.3 | 17.6 | 21.7 |
| Displacement power factor | 0.8 leading ... 0.8 lagging | | |
| THDi, rated power [%] | <2 | | |
| OUTPUT DC (BATTERY) | | | |
| Battery voltage range [V] | 85-400 | | |
| Recommended battery voltage[V] | 300 | | |
| Max.continuous charge/discharge current [A] | 20 | | |
| Communication interfaces | CAN/RS485 | | |
| Reverse connect protection | Yes | | |
| EPS OUTPUT (WITH BATTERY) | | | |
| EPS MAX. continuous apparent power [VA] | 4000 | 4000 | 5000 |
| EPS rated voltage[V],Frequency [Hz] | 230, 50/60 | 230, 50/60 | 230, 50/60 |
| EPS MAX.continuous current [A] | 21.7 | 21.7 | 26.0 |
| EPS peak apparent power [VA] Duration [s] | 6000 10 | 6000 10 | 8000 10 |
| Changeover time [ms] | <20 | | |
| THDv, linear Load [%] | <2 | | |
| EFFICIENCY | | | |
| MPPT efficiency [%] | 99.9 | | |
| Euro efficiency [%] | 97.0 | | |
| Max. efficiency [%] | 97.8 | | |
| Battery charge/discharge efficiency [%] | 98.5 (PV-BAT) 97.0 (BAT-AC) | | |
| POWER CONSUMPTION | | | |
| Standby consumption (Night) [W] | <15 for hot standby, <3 for cold standby | | |
| STANDARD | | | |
| Safety | IEC62109-1/-2 | | |
| EMC | EN61000-6-1/EN61000-6-2/EN61000-6-3 | | |
| Certification | VDE 0126-1-1 A1:2012 / VDE-AR-N 4105 /G99 /G98 / AS4777 / EN50549/ CEI 0-21 /VDE 2510 / and so on | | |
| ENVIRONMENT LIMIT | | | |
| Degree of protection(according to IEC60529) | IP65 | | |
| Operating temperature range [°C] | -20~+60 (derating at+45) | | |
| Max. operation altitude [m] | <2000 | | |
| Humidity [%] | 0~100 (condensing) | | |
| Storage temperature [°C] | -20~+60 | | |
| Typical noise emission [dB] | 40 | | |
| DIMENSION AND WEIGHT | | | |
| Dimensions(WxHxD) [mm] | 476*464*180 | | |
| Weight[kg] | 24 | | |
| Cooling concept | Natural | | |
| Topology | Non-isolated | | |
| Communication interfaces | Ethernet/Meter/Pocket WiFi(optional)/Pocket LAN(optional)/Pocket GPRS(optional)/DRM/USB/ISO alarm/CT | | |
| LCD display | Backlight 20*4 character | | |
| Standard warranty [years] | 5-10 | | |