

# SOLXPOW X3 Series

SOLXPOW X3-10/12/15/20K

POWMr



**98.4%**

Max. Efficiency

**40A**

Charge/Discharge

**110%**

Unbalanced Output

**10ms**

UPS-level Switch

Commercial

Three-Phase

HV Battery

2 MPPTs

## Optimal Power & Storage

- 98.4% Max. Efficiency.
- 30A PV input current, 2 MPP trackers.
- 110% Unbalanced Output.
- 40A charge/discharge current.

## Installation & Operation

- Plug & Play terminals for easy wiring.
- Power and alarm indicator.
- OLED display and App for setting and data management.
- WIFI configuration via App.

## Strong Load & Back-up

- 110% continuous AC output overloading.
- 200% max. back-up output overloading @60s.
- 10ms UPS-level switching.
- 150% DC oversizing.

## Flexible Design & Use

- 135-750V wide battery voltage range.
- IP65 for indoor and outdoor installation.
- Support paralleling up to 10 devices.
- Compact size and elegant appearance.

Inverter Model	SOLXPOW X3-10K	SOLXPOW X3-12K	SOLXPOW X3-15K	SOLXPOW X3-20K
PV Input				
Max. PV Array Power [KW]	15.0	18.0	22.5	30.0
PV Input Voltage Range* [V]	135~1000			
Rated PV Input Voltage [V]	620			
PV MPPT Voltage Range* [V]	200-950			
No. of MPP Trackers	2			
Max. PV Input Current [A]	30/30			
Max. Short-circuit Current [A]	40/40			
Battery Specification				
Battery Type	Lithium Battery (with BMS)			
Battery Voltage Range [V]	135-750			
Max. Charging/Discharging Current [A]	40/40			
AC Input & AC Output (On-Grid)				
Rated Output Power [KW]	10.0	12.0	15.0	20.0
Max. Output Apparent Power [KVA]	11.0 <sup>1)</sup>	13.2	16.5 <sup>3)</sup>	22.0
Max. Input Apparent Power** [KVA]	20.0	24.0	30.0	30.0
Max. AC Charging Power [KW]	10.0	12.0	15.0	20.0
Nominal AC Input/Output Voltage	3L/N/PE; 220/380V;230/400V;240/415V			
Nominal AC Frequency [Hz]	50/60			
Max. Output Current [A]	16.5 <sup>2)</sup>	20.0	25.0 <sup>4)</sup>	33.5
Power Factor	0.8 leading ...0.8 lagging			
THD	<3% @Rated output power			
DCI	<0.5%In			
AC Output (Buck-up)				
Rated Output Power [KW]	10.0	12.0	15.0	20.0
Max. Output Apparent Power [KVA]	11.0	13.2	16.5	22.0
Max. Output Current [A]	16.5	20.0	25.0	33.5
UPS Transfer Time	<10ms			
Nominal Output Voltage	3L/N/PE; 220/380V;230/400V;240/415V			
Nominal Output Frequency [Hz]	50/60			
Voltage Harmonic Distortion	<3% @Linear load			
Efficiency				
Max. Efficiency	98.4%			
European Efficiency	97.5%			
Protection				
PV Reverse Polarity Protection	Integrated			
Battery Reverse Protection	Integrated			
Insulation Resistance Protection	Integrated			
Surge Protection	Integrated			
Over-temperature Protection	Integrated			
Residual Current Protection	Integrated			
Islanding Protection	Integrated			
AC Over-voltage Protection	Integrated			
Overload Protection	Integrated			
AC Short-circuit Protection	Integrated			
General Specification				
Over Voltage Category	PV: II Main: III			
Dimensions [W×H×D MM]	534×418×210			
Weight [KG]	28.0 (10-12kW) / 31.0 (15-20kW)			
IP Class	IP65			
Static Consumption [W]	<15			
Topology	Transformerless			
Operating Temperature Range [°C]	-30~60			
Relative Humidity [%]	0~100			
Operating Altitude [m]	3000(> 3000m derating)			
Cooling	Smart fan			
Noise Leve [dB]	<40			
Display	OLED & LED			
Communication	CAN, RS485, WiFi/LAN (Optional)			

\* PV Max. Input voltage is 950V without battery, or 850V with battery, otherwise inverter will be waiting;

\*\* Max apparent power from the grid means the maximum power imported from the utility grid used to satisfy the backup loads and charge the battery;

1) G98: 10.5kVA; 2) G98: 16.00A; 3) AS 4777.2: 15.0kVA; 4) AS 4777.2: 21.7A