

SOLXPOW X4 Series & POW-HVE Series

POWMr

High-voltage Off-grid & Grid-tied Solar Intelligent Energy Storage System

Optimal Power & Storage

- 98.8% Max. Efficiency.
- 30A PV input, 4 MPP trackers.
- 100% Unbalanced Output.
- 100A charge/discharge current.

Strong Load & Back-up

- 110% continuous AC output overloading.
- 120% max. back-up output overloading @60s.
- 20ms UPS-level switching.
- 150% DC oversizing.

Installation & Operation

- Plug & Play terminal.
- Power and alarm indicator.
- OLED display & App.

Flexible Design & Use

- 135-750V wide battery voltage range.
- IP65 for indoor and outdoor installation.
- Compact size and elegant appearance.



Optimal Power & Storage

- Support 8 modules in Series.

Meticulous Care

- Modules operate independently for system safety.

Easy Management

- Pulley bottom, manual switch, and visual supervision interface.

Stronger Compatibility

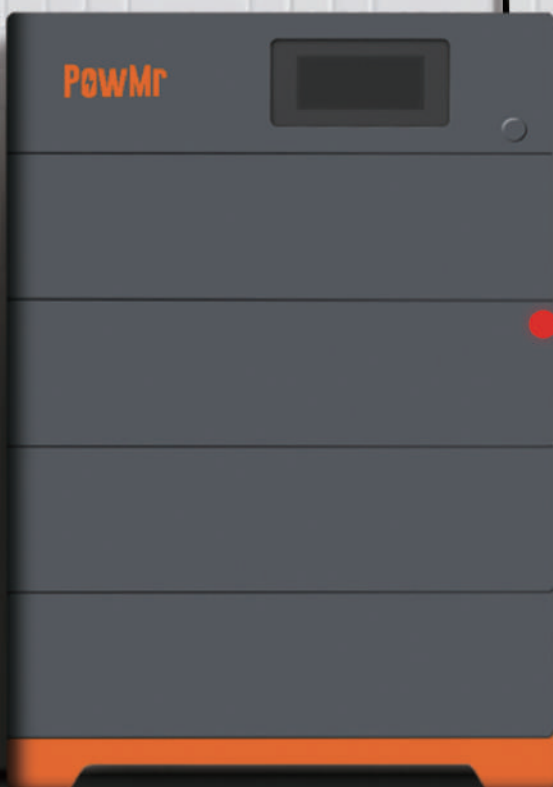
- Cover all mainstream protocols.

Long Life

- 4 times long static and 8 consistency screening.

Safety & reliability

- Nano-coating and self-healing technology construct the LFP channel.



Inverter Model			SOLXPOW X4-25K	SOLXPOW X4-30K	SOLXPOW X4-36K	SOLXPOW X4-40K	SOLXPOW X4-50K
PV Input	Max. PV Array Power	[KW]	37.5	45.0	54.0	60.0	75.0
	PV Input Voltage Range*	[V]	140~1000				
	Rated PV Input Voltage	[V]	620				
	PV MPPT Voltage Range*	[V]	200~850				
	No. of MPP Trackers		4				
	Max. PV Input Current	[A]	30×4				
	Max. Short-circuit Current	[A]	40×4				
Battery Specification	Battery Type		Lithium Battery (with BMS)				
	Battery Voltage Range	[V]	144~750				
	Max. Charging/Discharging Current	[A]	100/100				
AC Input & AC Output (On-Grid)	Rated Output Power	[KW]	25.0	30.0	36.0	40.0	50.0
	Max. Output Apparent Power	[KVA]	27.5	33.0 ¹⁾	39.6	44.0	55.0
	Max. Input Apparent Power**	[KVA]	30.0	36.0	43.5	48.0	60.0
	Max. AC Charging Power	[KW]	25.0	30.0	36.0	40.0	50.0
	Nominal AC Input/Output Voltage		3L/N/PE; 220/380V;230/400V;240/415V				
	Nominal AC Frequency	[Hz]	50/60				
	Max. Output Current	[A]	42.0	50.0 ²⁾	60.0	66.0	83.0
	Power Factor		0.8 leading ...0.8 lagging				
	THD		<3% @Rated output power				
	DCI		<0.5%In				
AC Output (Back-up)	Rated Output Power	[KW]	25.0	30.0	36.0	40.0	50.0
	Max. Output Apparent Power	[KVA]	27.5	33.0	39.6	44.0	55.0
	Max. Output Current	[A]	42.0	50.0	60.0	66.0	83.0
	UPS Transfer Time		<20ms				
	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		98.8%				
	European Efficiency		98.3%				
Protection	Integrated		PV Reverse polarity protection,Battery reverse protection,Insulation Resistance Protection, Surge Protection,Over-temperature Protection,Residual Current Protection,Islanding Protection, AC Over-voltage Protection,Overload Protection,AC Short-circuit Protection				
Generator Side	Max. input apparent power**	[KVA]	30.0	36.0	43.5	48.0	60.0
	Max. charging power of batter	[KW]	25.0	30.0	36.0	40.0	50.0
	Rated AC voltage		3L/N/PE; 220/380V;230/400V;240/415V				
	Rated AC frequency	[Hz]	50/60				
General Specification	Over Voltage Category		PV: II Main: III				
	Dimensions	[W×H×D MM]	800×620×300				
	Weight	[KG]	72.0				
	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]	<50				
Display		OLED & LED					
Communication		CAN, RS485, WiFi/LAN (Optional)					

* PV Max. Input voltage is 850V, 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) AS 4777.2, VDE-AR-N 4105: 30.0kVA; 2) AS 4777.2, VDE-AR-N 4105: 43.5A



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Inverter Model			POW-HVE-5KWH	POW-HVE-10KWH	POW-HVE-15KWH	POW-HVE-20KWH	POW-HVE-25KWH	POW-HVE-30KWH
Electronic Specifications	Rated Voltage	[V]	51.2	102.4	153.6	204.8	256.0	307.2
	Rated Capacity (C5)		100Ah@25°C					
	Energy	[Wh]	5120	10240	15360	20480	25600	30720
	Months Self Discharge		<3%					
	Charge Efficiency		99.5%@ 0.2C					
	Discharge Efficiency		96-99%@ 1C					
	Internal resistance		≤50m Ω(Fully charged, 25°C)					
	Charge Voltage	[V]	56.8	113.6	170.4	227.2	284.0	340.8
	Standard Charge Mode (25°C±2°C, <75%RH)		0.2C A Constant Current to 57V, then Constant Voltage 57V , until the current drops to 0.02CA, before use, rest 30 minutes					
	Charge Current	[A]	20					
	Maximum Charge Current	[A]	50					
	Charge Cut-off Voltage	[V]	58.4	116.8	175.2	233.6	292.0	350.4
	Continuous Discharge Current	[A]	100					
	Maximum Pulse Current		200A (<1S)					
Discharge Cut Off Voltage	[V]	44.8	89.6	134.4	179.2	224.0	268.8	
Operating Temperature Range	Nominal operating temperature		25°C± 3°C (77°F± 5°F)					
	Discharge		- 20°C~ 60°C (-4°F ~ 140°F)					
	Charge		0°C~ 45°C (32°F ~ 113°F)					
	Storage		0°C~ 40°C (32°F ~ 104°F)					
General Information	Cycle life		4000 cycles @ 0.2C 100%D.O.D					
	Communicate Protocol		RS485/CAN					
	SOC Display		Screen/LED/PC Software					
	Number of Cell		16 Strings					

Application of High-Voltage Energy Storage Batteries

