

PWS2-29P-EX

Bi-directional Storage Inverter



Features

Flexible Configuration

- Wide voltage range of 150~750V
- Parallel in both AC side and DC side for larger power & energy

High Efficiency & Stability

- Compatible with 19-inch rack for easy integration and installation

Extensive Use

- Droop control/communication control
- Optional PV charger for DC-coupled hybrid system
- Optional smart transfer switch for auto-backup.

Safety & Compatibility

- Global grid certified & listed
- Support lead-acid batteries, lithium batteries & sodium ion batteries & fly-wheel.

Specification

PWS2-29P-EX	
Battery Side	
Charging and Discharging voltage range	150V-750V(350V-750V @full load)
Rated Power	30kW
Maximum Power	33kW
Maximum Charging and Discharging Current	90A
Battery Switch-off Mode	Relay
Over Voltage Protection	Software Protection
Over Current Protection	Software Protection & DC Fuse
DC Bus Side	
Rated Power	45kW
Input Voltage Range	700V-830V
Maximum Input Current	32.5A*2
AC Grid-tied Output	
Rated Output Power	29.9kW
Maximum Apparent Power	32.7kVA
Maximum Active Power	32.7kW
Rated Grid Voltage	3W4P+PE, 400 (±15%) Vac
Rated frequency	50 (±2.5) Hz
Power Factor	Listed: 0.8~1 leading or lagging Actual:0.1~1 leading or lagging
THDi	<3%
AC Off-grid Output	
Rated Output Power	29.9kW
Maximum Apparent Power	32.7kVA
Maximum Active Power	32.7kW
Rated Grid Voltage	3W3P+PE, 400 (±20% configurable) Vac
Rated frequency	50 (±5 configurable) Hz
Power Factor	Listed: 0.8~1 leading or lagging Actual:0.1~1 leading or lagging
Overload Capacity	110%~120%, 10 min 120%~150%, 200 ms

Specification

Off-grid and parallel mode		
	Droop control parallel	Communication parallel
External transformer	Yes	No
Maximum number of parallel	10	10
Total length of parallel lines	No limit	7m
Efficiency		
Efficiency curve		
Max Efficiency	97.3%	
CEC Measured Efficiency	96.5%	
Communication		
Communication Port	CAN/RS485/Ethernet/WIFI	
General Specification		
Dimension(W*H*D)	440*173*596mm	
Cooling	Forced Air Cooling	
Weight	33kg	
Topology	Non-isolation	
Operation Altitude	3000m(>3000m derating)	
Operation Environment Contamination Level	≤2	
Temperature & Humidity	-30°C~60°C (>45°C derating) & 0-95%	
Noise	≤75dB	
IP Rating	IP20	
Certification		
Grid-tied Standard	EN50549	
Safety Certification	CE	
EMC Standard	FCC	

Specification

Sinexcel PWS2-29P-EX Bi-directional Storage Inverter

Data Version V1.3

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Applicable to PWS2-29P-EX Bi-directional Storage Inverter

Ltd. provides a full range of technical support for customers, users can contact the nearest office or customer service center of Shenzhen Sinexcel Electric Co.,Ltd.

Shenzhen Sinexcel Electric Co.,Ltd.

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Shenzhen Sinexcel Electric Co.,Ltd.

Website: www.sinexcel.com

Address: Block 6, Block 2, Nanshan Baiwangxin Hi-Tech Industrial Park, No.1002 Songbai Road, Nanshan District, Shenzhen, China

Postcode: 518055

TEL:0755-8651-1588

Fax: 0755-8651-3100

E-mail: service@sinexcel.com

