

PWS1 series

PWS1-125M-EX/PWS1-125M-EX-R

PWS1-135M-EX/PWS1-135M-EX-R



Feature

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Flexible Configuration

- PCS integrated with HV Box, system cost reduction
- -R version does not integrate the HV box
- Wide voltage range of 600~1000Vdc
- Compatible with air/liquid-cooling BESS
- Multiple mounting methods



High Efficiency & Stability

- Third-generation semiconductor, silicon carbide
- Modular design, easy to install and maintain
- Multi-branch battery access cluster management improved battery utilization
- Nominal Power Efficiency of 98%
- System online rate of 99%
- System utilization rate of 99%



Extensive Use

- Four-quadrant active and reactive regulation
- Supports constant power, constant voltage and limiting current control



Safety & Compatibility

- 3P4W output for on-grid and off-grid application
- Power response speed < 30ms
- Compatible with various BMS and EMS

Specification

Model	PWS1-125M-EX PWS1-125M-EX-R PWS1-135M-EX PWS1-135M-EX-R			
Utility-interactive Mode				
Nominal Power	125kW	125kW	135kW	135kW
AC Voltage	400 (340~460) Vac			
DC Voltage Range	600V~1000V			
Voltage for DC Aux port	600V~1000V			
DC Voltage @full load	665~1000V	665~1000V	720~1000V	720~1000V
Rated Output Power (VA) for AC output port	125kVA	125kVA	135kVA	135kVA
Rated Output Current (A) for AC output port	181Aac (125M), 195Aac (135M)			
Max DC Current	193A			
AC Connection	3P4W			
AC Frequency	50±5Hz			
THDI	≤ 3%			
Voltage Ripple Coefficient	≤ 1%			
AC PF	-0.8~-1,0.8~1			
Current Overload	1.1 times long-term			
Stand-alone Mode				
Nominal Power	125kW	125kW	135kW	135kW
AC Voltage	400 (340~460) Vac			
DC Voltage Range	600V~1000V			
Voltage for DC Aux port	600V~1000V			
DC Voltage @full load	665~1000V	665~1000V	720~1000V	720~1000V
Max DC Current	193A			
AC Connection	3P4W			
AC Frequency	50±5Hz			
AC PF	-1~-0.3,0.3~1			
Current Overload	1.1 times long-term, 1.2 times for 1 minute			
Aux Port Parameters				
Rated current for DC Aux port	10Adc max			
Rated Output Power (VA) for AC Aux port	4.6kVA			
Rated Output Current (A) for AC Aux port	20Ac			
Voltage (range) for AC Aux port	340~460VAc			
Frequency (range) for AC Aux port	45~55Hz			
Power factor range for AC Aux port	-1~-0.8, 0.8~1			
System Parameters				
Nominal Power Efficiency	≥98%			
Dimensions (W*H*D)	www.sinexc720*265*960mm			

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Specification

Noise	≤75 dB
Weight	≤115kg
Enclosure	IP66 C5
Operation Temperature	-40°C~ 60°C (≥ 55°C derating)
Type of the compatible battery (Chemistry)	Lead-acid/LPF/Liquid-flow/Lithium battery/Super capacitor
Cooling	Intelligent air cooling
Operation Humidity	0~100% (no condensation)
Operation Altitude	3000 m (> 3000 m derating)
Communication	
Communication	RS 485, Ethernet, CAN
Communication Protocol	Modbus TCP/RTU, IEC 104, CAN 2.0
BMS Access	Support
Inverter topology	non-isolated

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