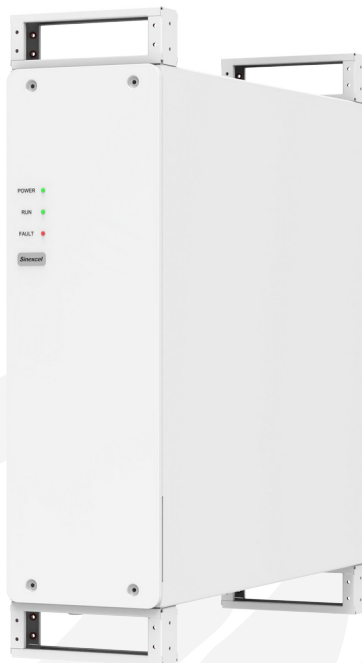


PWS1-160M Series

PWS1-160M-H-EX



Feature

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Flexible Configuration

- Three-phase four-wire system
- Wide voltage range of 720~1500Vdc
- Flat / Vertical / Wall-Mounted installation forms



High Efficiency & Stability

- IP66 rating for harsh environments in islands and deserts
- 1.5 times overload for 10s
- Power dispatching response time $\leq 15\text{ms}$



Extensive Use

- Supporting working parallel for multiple devices
- VSG technology upgrade for micro-grid application
- Suitable for FFR、FCR、FCAS application



Safety & Compatibility

- Global grid certified & listed
- Support air-cooling and liquid-cooling battery
- Seamless on / off-grid with collaborate external switch

Specification

Model	PWS1-160M-H-EX
Utility-interactive Mode	
Nominal Power	160 kVA
AC Voltage	400 (-15%~15%) Vac
DC Voltage Range	720 V~1500 V, > 1200 V derating to 90%
AC Current	231A
DC Max Current @NP	230A
AC Connection	3P4W/3P3W
AC Frequency	50/60 (-2.5~2.5) Hz
THDI	≤ 3%
Voltage Ripple Coefficient	≤ 1%
AC PF	-1~1
AC Overload Capacity	176 kVA (1.1 times long-term)
Stand-alone Mode	
Nominal Power	160 kVA
AC Voltage	400 (-10%~15%) Vac
DC Voltage Range	720 V~1500 V, > 1200 V derating to 90%
AC Current	231A
DC Max Current @NP	230A
AC Connection	3P4W
AC Frequency	50/60 (-2.5~2.5) Hz
AC PF	1-0.8 Leading~0.8-1 Lagging
AC Overload Capacity	176 kVA (1.1 times long-term / 1.5 times for 10s overload)
System Parameters	
Maximum Efficiency	98.5% （ External auxiliary source ）
Dimensions (width × height × depth)	893 mm × 290 mm × 1080 mm 893 mm × 290 mm × 950 mm （ No lug ） 893mm × 290mm × 900mm （ Excluding handles and terminals ）
Noise	75 dB @1m Vertical installation

Specification

Enclosure	IP 66
Weight	136 kg
Operation Temperature	-25 °C ~ 60°C (> 50°C derating)
Cooling	Forced air cooling
Operation Humidity	0~100% (no condensation)
Operation Altitude	3000 m (> 3000 m derating)
Installation Method	Flat / Vertical / Wall-mounted installation
Certification	EN50549-1 / EN50549-2 / IEC62477 / IEC61000 /
Communication	
Communication	RS 485 , Ethernet , CAN
Communication Protocol	Modbus TCP/RTU , CAN2.0
Type of the compatible battery	Lithium Iron Phosphate Battery, Ternary Lithium Battery, Lithium Titanate Battery, Sodium-ion Battery, Vanadium Flow Battery, Zinc Bromine Flow Battery, Hydrogen Fuel Cell, Supercapacitor, Lithium Polymer Battery