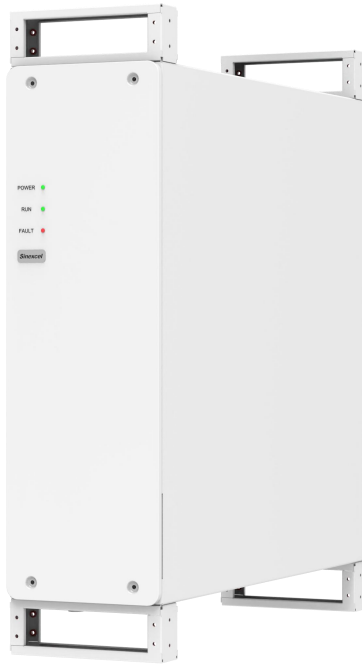


PWS1-160M-H-EX/NA



Features



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

- Support up to 10 units for off-grid scenarios
- 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 switching with STS module

Specification

Model	PWS1-160M-H-EX	PWS1-160M-H-NA
Utility-interactive Mode		
Nominal Power	160 kVA	160 kVA
AC Voltage	400 (-15%~15%) Vac	480 (-15%~15%) Vac
DC Voltage Range	720 V~1500 V, > 1200 V derating to 90%	850 V~1500 V, > 1200 V derating to 90%
AC current	230A	192A
DC Current	222A	188A
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 / 1.5 times for 10s overload)	
Stand-alone Mode		
Nominal Power	160 kVA	160 kVA
AC Voltage	400 (-10%~15%) Vac	480 (-10%~15%) Vac
DC Voltage Range	720 V~1500 V, > 1200 V derating to 90%	850 V~1500 V, > 1200 V derating to 90%
AC current	230A	192A
DC Current	222A	188A
AC Connection	3P4W	
AC Frequency	50/60 (-2.5~2.5) Hz	
AC PF	-1~1	
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 893mm × 290mm × 950mm (No Lug)	
Noise	< 80 dB @ 1 m	

Specification

Enclosure	IP 66
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 / UL1741 & IEEE1547 / IEC62477 / IEC61000 / FCC
Communication	
Communication	RS 485, Ethernet, CAN
Communication Protocol	Modbus TCP/RTU, CAN2.0