

PWS1-160M-H



Features



Flexible Configuration

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



High Efficiency & Stability

- IP65 rating for harsh environments in islands and deserts
- 1.5 times overload for 10s
- Power dispatching response time $\leq 10\text{ms}$



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
AC Parameters	
Rated AC Power	400 Vac, 230 A@ 160 kVA 440 Vac, 209 A@ 160 kVA 480 Vac, 192 A @ 160 kVA
AC Connection	3P4W Split-phase
AC Overload Capacity	176 kVA (1.1 times long-term / 1.5 times for 10s overload)
Utility-interactive Mode	
AC Voltage Range	400/440/480 (-15%~15%) Vac
AC Frequency	50/60 (-2.5~2.5) Hz
THDI	≤ 3%
Voltage Ripple Coefficient	≤ 1%
AC PF	-1~1
DC Parameters	
Maximum DC Power	176 kW
DC Voltage Range	400 Vac (720 V~1500 V, > 1200 V derating to 80%) 480 Vac (850 V~1500 V, > 1200 V derating to 80%)
Maximum DC Current	245 A
Voltage Regulation Accuracy	≤ ±1%
Current Regulation Accuracy	≤ ±1%
System Parameters	
Maximum Efficiency	98.5% / CEC efficiency 98%
Dimensions (width × height × depth)	892 mm × 290 mm × 1080 mm
Noise	< 80 dB @ 1 m
Model	PWS1-160M-H
AC Parameters	
Rated AC Power	400 Vac, 230 A@ 160 kVA 440 Vac, 209 A@ 160 kVA 480 Vac, 192 A @ 160 kVA
AC Connection	3P4W Split-phase

Specification

Enclosure	IP 65
Operation Temperature	-25°C (-20 °C required) ~ 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	IEC62477 / IEC61000 / EN50549-1 / UL1741 / IEEE1547 / CSA22.2 (by the end of November) VDE4110 / G99 / AS4777 / CEI0-16 (TBD)
Communication	
Communication	RS 485, Ethernet, CAN
Communication Protocol	Modbus TCP/RTU, CAN2.0
BMS Access	Support
Enclosure	IP 65
Operation Temperature	-25°C (-20 °C required) ~ 60°C (> 50°C derating)
Cooling	Forced air cooling
Operation Humidity	0~100% (no condensation)
Operation Altitude	3000 m (> 3000 m derating)