

4*PWS1-160M-H Rack Solution



Features



Flexible Configuration

- Installs 1~4 PWS1-160M-H-EX/NA modules
- Pre-wired AC busbar, equipped with a main isolating switch and a circuit breaker for each branch circuit.
- Modular design for scalable power solutions



High Efficiency & Stability

- Integrated U2 control board for parallel PCS control
- Ethernet switch for centralized module communication
- Simplified EMS communication with the PMS-U2-P



Extensive Use

- Four independent DC input branches with individual fuses and DC disconnectors
- Optional common DC busbar for single DC connection to batteries
- Designed for scalable integration into various power requirement



Safety & Compatibility

- Robust rack design for secure module installation
- Pre-installed protection devices for AC and DC connections
- Centralized control for enhanced system reliability and safety

Specification

Model	Max 4*PWS1-160M-H-EX
Utility-interactive Mode	
Nominal Power	640 kVA (4*160 kVA) @720~1200Vdc 576kVA (4*144kVA) @1200~1500Vdc
AC maxpower	4*160*1.1kVA
AC Voltage	400 (-15%~15%) Vac
DC VoltageRange	720 V~1500 V, > 1200V derating to 90%
AC Current	4*231A
DC Max Current@NP	4*230A
AC Connection	3P3W/3P4W
AC Frequency	50/60 (-2.5~2.5) Hz
THDI	≤3%
Voltage Ripple Coefficient	≤1%
AC PF	-1~1
Current Overload	1.1times long-term
Stand-alone Mode	
Nominal Power	640 kVA (4*160 kVA) @720~1200Vdc 576kVA (4*144kVA) @1200~1500Vdc
AC Max Power	4*160*1.1kVA
AC Voltage	400 (-10%~15%) Vac
DC Voltage Range	720 V~1500 V, > 1200V derating to 90%
AC Current	4*231A
DC Max Current@NP	4*230A
AC Connection	3P4W
AC Frequency	50/60 (-2.5~2.5) Hz
AC PF	-1~1
Current Overload	1.1 times long-term/1.5 times for 10s

Specification

System Parameters	
Dimensions (width × height × depth)	1340*2400*960 mm (No screws)
Number of Modules	4
DC Input Branches	1 branch
AC Connection	Pre-wired AC busbar, equipped with a main isolating switch and a circuit breaker for each branch circuit.
DC Connection	Equipped with a common DC bus for combined connection (each PCS DC side is equipped with a fuse and an isolating switch)
Control System	Integrated U2 control board for parallel PCS control
Communication Interface	Single ethernet ports for EMS communication; Equipped with an 8-port Ethernet switch for communication between the EMS and various modules
Enclosure	Module:IP66 Rack:IP55(Enclosure)
Weight	1110kg(estimated)
Operation Temperature	-25°C~60°C(>45°C derating)
Cooling	Forced aircooling
Operation Humidity	0~100%(no condensation)
Operation Altitude	3000m(>3000m derating)
Installation Method	Floor-standing (No heat source: 2500mm at the front side,1500mm at the rear side,and 50mm at the left/right side)
Communication	
Communication	RS485,Ethernet,CAN(Through PMS-U2-P)
Communication Protocol	ModbusTCP/RTU,CAN2.0(Through PMS-U2-P)