POWERRIDE 4-HYBRID
Three Phase, 48 to 400kW

208Y/120 or 480Y/277 VAC
Modular Design, Front Access
ETL Certified to UL1778 and UL924
Hybrid Fast Transfer Green Mode - 98% Efficiency
Online Continuous Mode - 94% Efficiency (Typical)

Multiple Design Configurations
Can be configured as dual conversion online system or fast transfer standby system.

True Galvanic isolation design
The ultimate UPS solution – providing uninterrupted power and protection against noise, lightning and leakage current.

Designed to protect against a floating neutral
Ensures the safety of personnel and UPS.

Advanced digital signal processing
Increased reliability and efficiency through the use of DSP, IGBT and advanced switching components.

Modular design for ease of troubleshooting and maintenance
Quick change components speed repairs and cut down time.

Redundant Multi-CPU design allows the software and hardware to work together as a team
This results in the highest reliability possible.

The most intelligent and safe battery test circuitry available today
• No risk of AC output failure during test of failed batteries
• Maximizes battery bank protection when leakage or a ground fault is present

Individualized inverter support on each phase
Maintains specified characteristics, even with 100% unbalanced load.

Intelligent, fully temperature compensated battery charger
• Prolongs battery life
• Selectable high charging capacity for large capacity extended backup time battery banks

Hi-Tech fan speed control
Increases fan life expectancy while reducing audible noise.

Optimum design for heat dissipation
The control and power circuits are separated to reduce operating temperature for high reliability under adverse operating conditions.

Battery Power start feature
The unit can be started with or without the AC mains using battery power alone eliminating large surge currents.

www.perfectpowersystems.com
TECHNICAL SPECIFICATIONS

POWERRIDE 4-HYBRID

Power Rating: 48, 64, 80, 96, 128, 160, 192, 240, 320 and 400 kW

Input Voltage: 208Y/120 V or 480Y/277 VAC (-15% to +15%)

Output Voltage: 208Y/120 V or 480Y/277 VAC

Output Frequency (Inverter Operation): 60 Hz ± 1 Hz

Voltage Regulation: ±1% at 100% unbalanced load

Output Voltage Wave Form: Sine-Wave <2% THD

Crest Factor: 3:1 Typical

Surge Protection: The UPS will protect itself and the load against surges as defined in ANSI/IEEE C62.41 Categories A and B

Isolation: True galvanic isolated

Battery: Sealed maintenance-free VRRA or Long Life Battery (Optional)

Recharge Time: Varies per KVA and conforms to UL924.

Environmental:

Humidity: 0 - 90% (non-condensing)

Operating Temperature:

UPS: 0° to 40°C (32° - 104°F)

Battery: 20° to 25°C (68° - 77°F) higher temperature batteries are available for special order

Storage Temp.: -20° to 60°C (-4° - 140°F) electronics only.

Altitude: Up to 5,000 ft

Cabinet Size (UPS Only)

48kW: 34”W x 63”H x 31.5”D
64-128kW: 55.5”W x 63”H x 31.5”D
160-240kW: 100.25”W x 63”H x 31.5”D
320kW: 133”W x 71”H x 39.5”D
400kW: 178”W x 71”H x 39.5”D

Battery Cabinet: 51”W x 70”H x 30.5”D

STANDARD FEATURES

- 6 pulse or 12 pulse controlled rectifier (12 pulse for 80 kVA & up)
- Input and Output Main circuit breakers
- Data and events LCD display
- Built-in Transient Voltage Surge Suppressor
- EMI suppression
- PWM methodology (DSP)
- Internal Maintenance Bypass Breakers
- Isolation transformer at output for true galvanic isolation
- Modular design to facilitate ease and speed of service
- Cold start function: UPS can be started with battery power only without an AC source
- Multi-CPU design: Several CPUs are employed in control circuit and critical functions are designed with parallel redundancy for added reliability
- Protection against misuse: circuit breaker on/off sensor and power supply sensor, the user cannot cause UPS damage by operator error
- Intelligent charger: UPS will automatically recharge with temperature compensation
- Intelligent battery test
- Redundant power supply
- Long Life Batteries

OPTIONS

- RS-232 / RS-485 for various accessory
- 8 Dry contacts: INVON, OVL, FAULT, SS, BYPASS, BACK-UP, BATL, COM.
- Remote control panel UPSAN™
- Software for PC monitoring UPSAN™
- Delta Input
- Battery Monitoring module DCMAN™
- Output Aux CB’s (Up to 24 Positions)
- WiFi Monitoring (GMS)
- Zone 4 Seismic Cabinet Brackets
- Wireless Battery Monitoring
- Event Logging up to 500 events
- Battery Cabinet Fan Exhaust
- Battery Cabinet Fan Exhaust Dry Contact
- 100% Unbalancing Load

Consult Factory for more features and choices of remote communication.

Contact factory for units smaller than 48 kW.

* Units are available only upon request.

Specifications are subject to change without prior notification.