# Specifications



## Eaton 9PX2200IRTBPF

Eaton 9PX UPS HotSwap FR, 2200 VA, 2200 W, Input: C20, Outputs: (4) French, (1) C19, Rack/tower, 3U

| General specifications | |
|---|---|
| **PRODUCT NAME** | Eaton 9PX UPS |
| **CATALOG NUMBER** | 9PX2200IRTBPF |
| **MODEL CODE** | Eaton 9PX 2200i RT3U HotSwap FR |
| **UPC** | 743172081452 |
| **PRODUCT LENGTH/DEPTH** | 48.5 cm |
| **PRODUCT HEIGHT** | 13 cm |
| **PRODUCT WIDTH** | 44 cm |
| **PRODUCT WEIGHT** | 30 kg |
| **COMPLIANCES** | CE Marked<br>TUV<br>cULus Listed<br>CSA 22.2<br>FCC part 15 Class B<br>CISPR22 Class B |
| **CERTIFICATIONS** | EAC<br>CE<br>ENERGY STAR certified<br>IEC/EN 62040-1<br>UL 1778<br>IEC/EN 62040-2 |
| **GLOBAL CATALOG** | 9PX2200IRTBPF |
| **PRODUCT TYPE** | UPS |

## Battery

| | |
|---|---|
| **BATTERY MANAGEMENT** | • ABM & Temperature compensated charging method (user selectable)<br>• Automatic battery test<br>• Deep discharge protection<br>• Automatic recognition of external battery units |
| **BATTERY REPLACEMENT** | Hot-swappable internal batteries and extended battery modules (EBMs) |
| **BATTERY QUANTITY** | 6 |
| **BATTERY RATING** | 12 V / 7 Ah |
| **BATTERY TYPE** | Valve Regulated Lead Acid (VRLA) |
| **EXTENDED BATTERY CAPABILITY** | Yes |
| **RUNTIME AT FULL LOAD** | 3 min |
| **RUNTIME AT HALF LOAD** | 10 min |

## Electrical input

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|---|---|
| **INPUT CONNECTION** | C20 |
| **INPUT CORD LENGTH** | 1.8m |
| **INPUT NOMINAL VOLTAGE** | 230V default (200/208/220/230/240V) |
| **INPUT VOLTAGE RANGE** | 176-276 V (100-276 V with derating) |
| **NOMINAL FREQUENCY** | 50/60 Hz |
| **INPUT FREQUENCY RANGE** | 40-70 Hz |
| **INPUT POWER FACTOR** | >.99 |

## Electrical output

| | |
|---|---|
| **RECEPTACLE** | (4) French, (1) C19 |
| **TOPOLOGY** | Online/Double-conversion |
| **WATTAGE** | 2200 W |
| **VA RATING** | 2200 VA |
| **OUTPUT WAVEFORM** | Sine wave |
| **VOLTAGE** | 230V |
| **OUTPUT POWER FACTOR** | 1 |
| **OUTPUT NOMINAL VOLTAGE** | 230V default (200/208/220/230/240V) |
| **OUTPUT VOLTAGE RANGE** | 200/208/220/230/240 V +/- 1% |
| **VOLTAGE DISTORTION OUTPUT (LINEAR LOAD) - MAX** | 3 |
| **OUTPUT FREQUENCY** | 50/60 Hz |
| **FEED TYPE** | 1 |

## Communications

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|---|---|
| **COMMUNICATION** | • USB port (HID compliant)<br>• Serial port (RS232)<br>• Mini terminal block for remote On/Off<br>• Mini-terminal block for remote power off<br>• Mini-terminal block for output relay<br>• Dry contacts (3 outputs, 1 input, optocoupler, DB9) |
| **EXPANSION SLOTS** | One slot for optional communication card |
| **ETHERNET INTERFACE** | No |
| **INCLUDES NETWORK CARD** | No |
| **SOFTWARE COMPATIBILITY** | Eaton Intelligent Power Manager, Eaton Intelligent Power Protector |
| **USER INTERFACE** | Multilingual graphical LCD display |
| **TYPE OF INTERFACE** | Other |
| **POTENTIAL FREE SWITCH CONTACT** | Yes |

## Environmental

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|---|---|
| **ALTITUDE** | 3000 m |
| **BTU RATING** | Online: 488 |
| **NOISE LEVEL** | <40 dB at 1 meter |
| **RELATIVE HUMIDITY** | 0-96% non-condensing |
| **TEMPERATURE RANGE** | 0° to 40°C (32° to 104°F) |

## Additional specifications

| | |
|---|---|
| **SPECIAL FEATURES** | • Double conversion topology<br>• Constantly monitors power conditions and regulates voltage and frequency<br>• First UPS in its class to provide Unity power factor (VA=W)<br>• Energy Star qualified, provides the highest efficiency level to reduce energy and cooling costs<br>• Internal bypass allows service continuity in case of UPS fault<br>• Next-generation graphical LCD display<br>• Compatible with Virtual environments (VMware, Hyper-V, Citrix Xen, Redhat)<br>• Meter energy consumption (down to the managed outlet groups)<br>• Hot swappable batteries<br>• Advanced Battery Management (ABM) technology to increase battery lifetime<br>• Long backup time with up to 4 optional EBM |
| **RACK SIZE** | 3U |
| **CONSTRUCTION TYPE** | 482.6 mm (19 inch) device |
| **RACK MOUNTING KIT** | Yes |
| **EFFICIENCY AT MAX. LOAD** | 93.5 |
| **PACKAGE CONTENTS** | • UPS<br>• Input cable<br>• Maintenance Bypass<br>• (2) IEC-IEC output cables<br>• USB cable<br>• Serial cable<br>• (2) brackets for 19’ mounting<br>• (2) Rack-mounting kit<br>• (2) Supports for tower mounting<br>• Cable locking system<br>• Safety instructions<br>• Quickstart guide |
| **PHASE (INPUT)** | 1 |
| **PHASE (OUTPUT)** | 1 |
| **INTERNAL BYPASS** | Yes |
| **HOT SWAP POWER** | Yes |

| | |
|---|---|
| **AUTO SHUTDOWN FUNCTION** | Yes |

## Resources

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|---|---|
| **APPLICATION NOTES** | Eaton solutions for Cisco IDF/MDF closets |
| **BROCHURES** | Eaton UPS and battery services - EN |
| **MANUALS AND USER GUIDES** | Eaton 9PX Maintenance Bypass User Guide<br><br>Eaton Bypass Power Module (BPM) user guide |
| **SPECIFICATIONS AND DATASHEETS** | Eaton Specification Sheet - 9PX2200IRTBPF |

| | |
|---|---|
| **PROJECT NAME:** | |
| **PROJECT NUMBER:** | |
| **PREPARED BY:** | |
| **DATE:** | |

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