# Eaton Power Distribution Unit Technical Specification

Design Technical Specification in accordance with IEC/EN 62368-1:2014(Second Edition)

## MODEL: ePDU EMAV0001 (Part Number: 802003002) Input Metered, Outlet Switched PDU Design Technical Specification Sheet.

### General CHARACTERISTICS:

| | |
|---|---|
| **Function** | **MONITORED SWITCHED** |
| **Drawing** | **Refer Drawing File** |
| **Style Number** | **EMAV0001** |
| **Part Number** | **802003002** |
| **U Height** | **42 [Minimum U rack]** |
| **MIB** | **Available for download** |

### Physical CHARACTERITSTICS:

| | |
|---|---|
| **Dimensions (H x W x D, mm)** | **52x53x917** |
| **Mounting Style** | **Button mounting on rear and sides, variable mounting bracket** |
| **Input Cord Length** | **10'** |
| **Depth of Circuit Breaker, in** | **2.087** |
| **Form factor** | **0U** |

### Power Distribution Unit (PDU) Functionality:

| | |
|---|---|
| **Metering Attributes** | **Voltage(V), Current(A), Apparent Power(kVA), Real Power(kW), Power Factor, Energy (kWh)** |
| **Metering Accuracy** | **± 1% as per ISO/IEC 62052-21** |
| **Metering Locations** | **Input phase and circuit breaker measurements** |
| **Remote Outlet Switching** | **Yes Individual Outlet** |

### Environmental CHARACTERSTICS:

| | |
|---|---|
| **Operating Temperature** | **-5 to 60°C (23 to 140°F)** |
| **Storage Temperature** | **-20 to 60°C (-4 to 140°F)** |
| **Humidity (operating/storage)** | **5-90% RH / 5-95% RH; non-condensing** |
| **Max operating elevation, above MSL** | **3,000 m (9,840 ft)** |

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## Input CHARACTERISTICS:

| | |
|---|---|
| **Max Input Power** | **3.7 kVA @ 240 Vac** |
| **Input Plug** | **(1)IEC 60309 16A P+N+E**  |
| **Cable Length (m)** | **3** |
| **Voltage Range** | **200-240V, 1-Phase** |
| **Current** | **16A P+N+E** |
| **Phase** | **Single-phase** |
| **Frequency** | **50/60 Hz** |

## Output CHARACTERISTICS:

| | |
|---|---|
| **Output voltage** | **230 V** |
| **Maximum output current (phase)** | **16 A** |
| **Overload protection (internal)** | **Yes, Built IN** |
| **Grip cable retention** | **Yes** |
| **Type and Number of Outlets** | **(12) IEC-320-C13**  **(4) IEC-320-C19**  |
| **Outlet Control** | **Yes** |



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## Circuit Breaker Configuration & CHARACTERISTICS:

| | |
|---|---|
| **Circuit Breaker Type** | **(2) 1-pole, 16A hydraulic-magnetic circuit breakers (temperature stable)** |
| **Circuit Interrupt Rating** | **5,000 Amps (UL489)** |
| **Circuit Breaker Trip Curve** | **Sensata Trip Curve 62/Carling Trip Curve 24** |
| **Inrush Pulse Tolerance** | **10 times rated current (approx.)** |
| **Dielectric Strength** | **3,750 VAC, 60Hz, 60 seconds between all electrically isolated terminals** |
| **Vibration** | **Shall not trip when vibrated to MIL-STD-202, Method 204, Condition A, 100% load** |
| **Temperature Rating** | **-40 to 85°C (-40 to 185°F) Ambient** |
| **Handle Off Guard** | **Yes, protects against accidental user actuation to OFF position** |

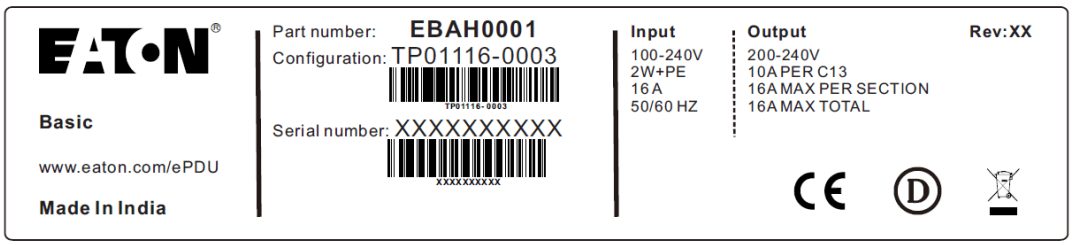
## Network Connecting CHARACTERTICS:

| | |
|---|---|
| **Network Connectivity** | **1x Gigabit Ethernet (10/100/1000 Mbps) connection/IP address** |
| **Ethernet Cascading** | **Up to 04 units share a single "daisy-chain" Ethernet connection/IP address** |
| **Dual Network Access** | **Dual network connectivity allows redundancy and/or multiple stakeholder connectivity** |
| **Remote Connectivity** | **HTTP/ HTTP(s), iPV4 and iPV6, SSH/SSHv2,SSLv3/TLSv1, TEKNET, SNMP (v1, v2c, v3), LDAP** |
| **WebUI Interface** | **Data Efficiency REACT framework with native mobile support** |

## Environmental and Approval Standards:

| | |
|---|---|
| **Markings** | **CE Marking & DEMKO Markings** |
| **Approvals** | **IEC/EN 62368-1:2014(Second Edition) Audio/video, information and communication technology equipment - Part 1: Safety requirements** |
| **Electromagnetic compatibility** | **EN 55032: 2015 + AC: 2016 Electromagnetic compatibility of multimedia equipment -Emission Requirements<br>EN 55035: 2017 Electromagnetic compatibility of multimedia equipment -Immunity requirements** |
| **Environmental** | **RoHS Directive – 2011/65/EU Directive on Restriction of the use of certain hazardous substances in electrical and electronic equipment** |
| **Manufacturing Plant** | **ISO 9001:2015 / ISO 14001:2015** |

## SAMPLE Labelling Example with CE & DEMKO Markings:




The technical specification is subject to change without notice.



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## MANAGEMENT MODULE & DISPLAY CHARACTERISTICS:

| | |
|---|---|
| **Microprocessor/Memory** | **Cortex A-4** |
| **Field Replacement** | **Hot swap replaceable module; fast plug-and-play connectivity** |
| **Module Orientation** | **Tool-less removal and 180$^{o}$ install capable for top or bottom power cord orientation with Automatic Display flip feature with gravity sensors** |
| **User Display & Functions** | **large high visibility LED display for key metering information and alarms. Low-power graphical oLED with user controls for local information.** |
| **Display Language** | **English, Spanish, German, French, Italian, Korean, Japanese, Chinese (simplified)** |
| **Security & Sensors** | **Supports up to 8 digital sensors for environmental sensors and/or electronic locks** |
| **Environmental Interface** | **Yes with Temperature & Humidity Sensors** |
| **Serial Interface** | **RS485** |
| **Ethernet Interface** | **1Gb** |