# ePDU G3 Platform

## Power distribution for IT equipment

Basic
In-Line Metered
Metered Input
Metered Outlet
Switched
Managed

**EAT·N**

*Powering Business Worldwide*

# Eaton's 3rd generation power distribution technology

The ePDU G3 platform is designed to provide reliable, cost effective power distribution together with highly accurate monitoring and control for IT equipment in  the datacentre.

## This Industry-leading platform enables you to:

- Reliably distribute power to your IT equipment
- Accurately meter and control power consumption
- See where you have available power and are most efficient
- Choose the level of metering to provide the level of information that you require
- Choose equipment switching to allow remote data centre control

## How do I reduce cooling costs by taking advantage of modern hot-air containment solutions and the newest IT technologies to get higher rack operating temperatures?

**60˚ Operating Temperature:** ePDU G3 can be used in very hot environments. Take full advantage of ASHRAE guidelines.

- ePDU G3 operates in extreme environments and containment solutions
- Allows for: containment solutions, free cooling scenarios and operating IT equipment with high temperature thresholds
- Plus optional environmental monitoring with dry contacts with configurable alarms for additional sensors

## How can I learn what my IT equipment is consuming so I can optimize my Data Centre, control my costs and utilize all my available power?

**Equipment Metering:** Meter Individual outlets or group outlets to meter equipment with multiple inputs, over multiple ePDUs for A and B feed. Clearly see capacity exactly what your equipment is consuming.

## How can I operate remotely with lights-out control, including remote re-booting, scheduled shut downs and restarts?

Equipment Switching: Switch individual outlets or group to switch equipment with multiple inputs, over multiple ePDUs for A and B feed, including sequencing and scheduled shut-down and restart. Supports Graceful Shutdown with Eaton's Intelligent Power Protector.

## Simplify load balancing

Colour coding and laser engraved chassis easily link breakers to outlet groups.
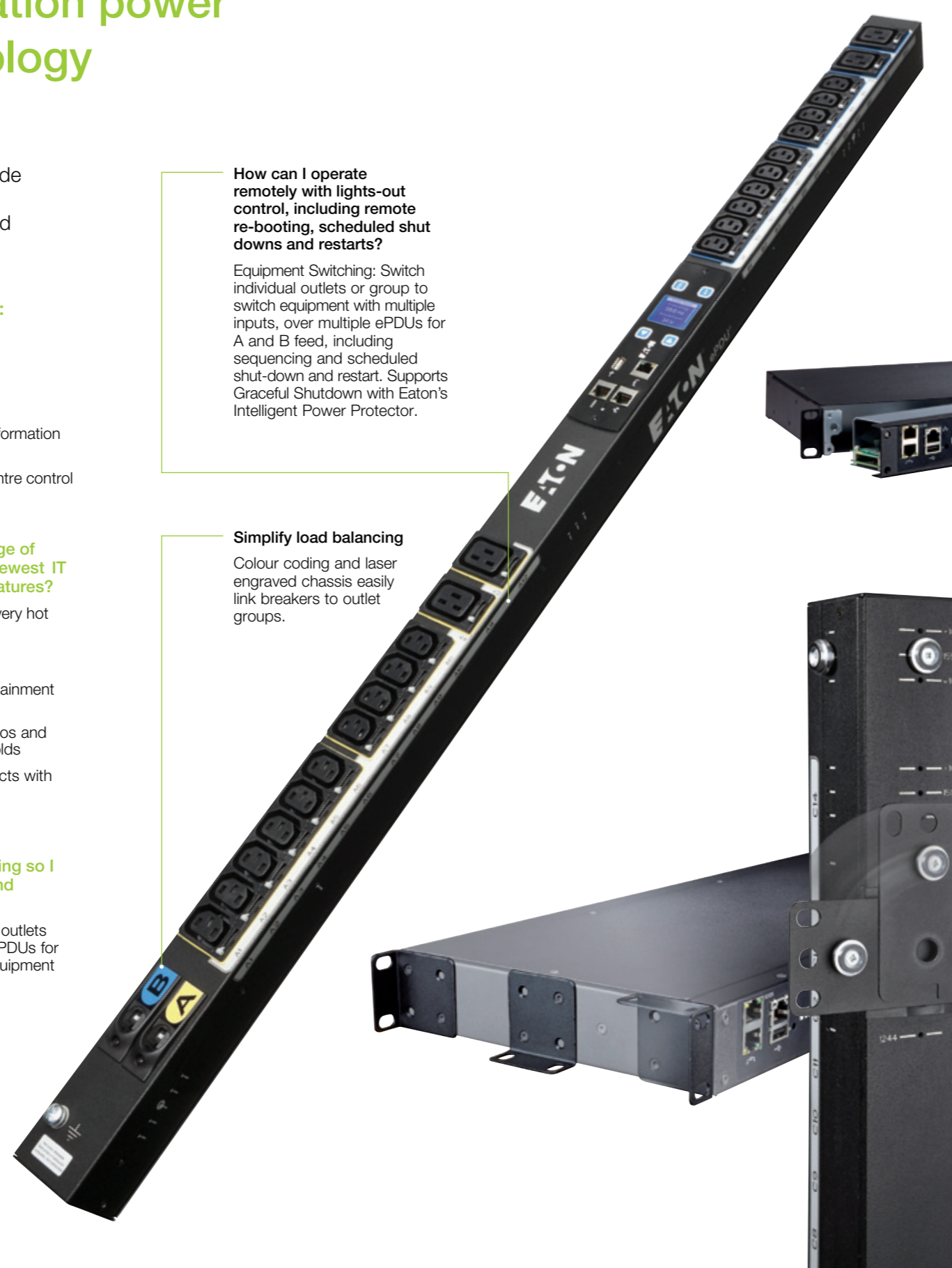
## How do I simply control and configure my ePDU, and easily see where I have any problems?

**Easy Configuration:** includes central advanced LCD display with menu system. Change settings incl. IP address, configure via USB stick copy / paste configuration file or configure En Masse via IPM software.

**Central Communication and Alerts:** Read Current, Voltage, Power, kWhr and more, Multi colour interface allows easy identification of alerts. Easily monitor the status of your power distribution on the LCD, via the web interface or via your management software.

## How to avoid downtime if a rack PDU becomes faulty or I want to upgrade?

**No Downtime on Upgrades:** ePDU G3 has Hot-Swap network components – update or change without changing the outlet state.

## How do I ensure that my PDUs will fit in all my different racks?
## How do I ensure that nothing interferes with my IT Equipment and hot-swap components?

**Small with Flexible Mounting:** Easily access hot-swappable IT equipment and components.

- ePDUs are available in 0U to fit vertically on the back of a rack, or in 1U/2U to be mounted horizontally in any server rack
- Ensure the ePDU, plugs and cables are completely out of the way of equipment with button mount on the rear and sides
- Optionally side mount to face the rear doors of the rack to ensure the ePDU, plugs and cables don't interfere with hot-swap IT equipment
- Choose to raise or lower the ePDU in the rack to suit your installation
- Unique patented variable mounting system can be mounted at any point on the ePDU and gives full flexibility

**Low profile chassis:**

- The ePDU doesn't protrude into the rack and is low profile even at the breakers
- 52mm wide x 53mm high and 58.7mm at breakers on most models
- Hydraulic-Magnetic Circuit Breakers include accidental-tip protection by default

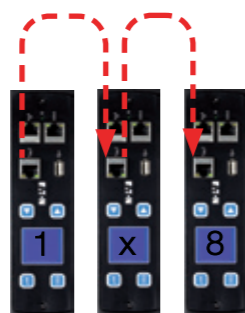1U/2U form factor ePDUs can be mounted horizontaly, vertically, or under a surface.

## How can I reduce the cost of networking for monitoring rack PDUs and reduce network traffic?

**Daisy-Chain 8 ePDUs from one IP port and one IP address:** this reduces the cost of networking, reduces IP addresses and data packets on the network. Daisy Chaining reduces network infrastructure costs by up to 87%.



## How do I ensure that my IT equipment is protected against IEC plugs being accidentally knocked out during maintenance or come lose through vibration?

**Integrated Grip – IEC Plug Retention:** Prevents accidental disconnect from being bumped or from vibration. Works with any IEC plug, no need to buy special cables or brackets.
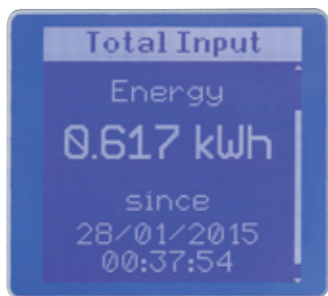


## How do I ensure that costs can be appropriately attributed or billed for department billing and colocation data centers?

**IEC +/-1% Billing Grade Accuracy:** Meter your energy consumption (kWh) plus V, W and A extremely accurately. Choose your level of Metering: from ePDU to branch circuit to individual pieces of equipment, including metering kWh for IT equipment over A and B feeds.

## How can I ensure business uptime if the power goes down?
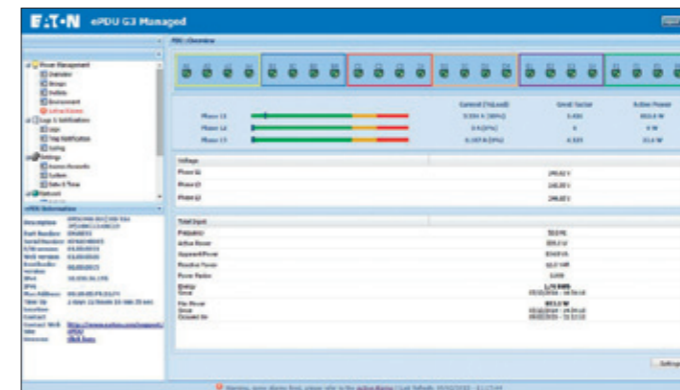


Detailed web-based interface on ePDU G3
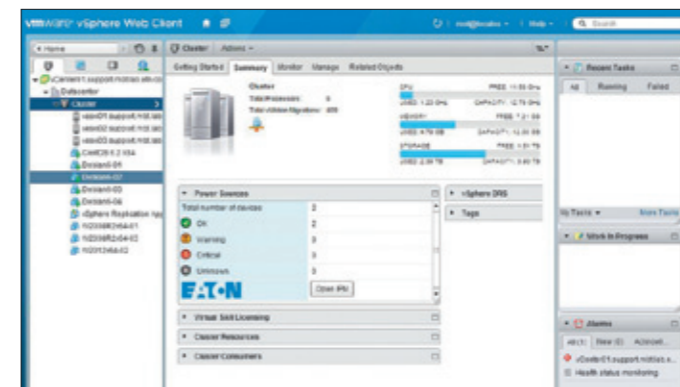


Intelligent Power Manager integration into VMware interface

### Full integration into VMware and Citrix with Intelligent Power Manager

- Trigger VM migration or VMware Site Recovery Manager (SRM)
- User configurable alerts on the ePDU G3 work with Eaton's Intelligent Power Manager (IPM) software to trigger actions
- Trigger automatic migration of virtual servers in the event of a power failure via UPS, ePDU alarm or threshold, temperature/humidity or dry contact event
- User configurable: includes feed going down, branch circuit reaching a defined threshold etc.
- Full integration in VMware interface

## How can I easily monitor many ePDUs and IT equipment?
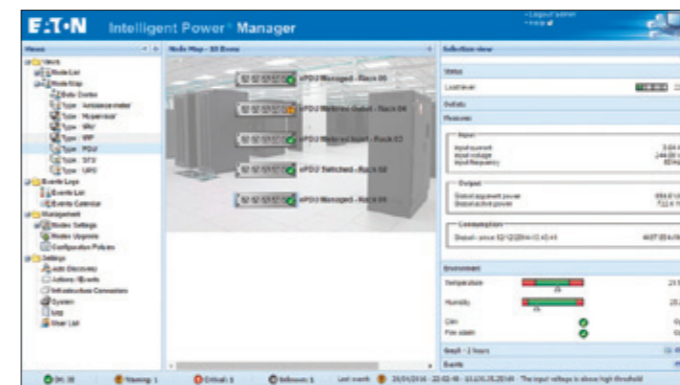


### Intelligent Power Manager offers supervision and control through a single interface

- One interface to monitor your power usage of many ePDUs
- ePDU and UPS Management
- En masse Configuration of ePDU
- En masse Update of ePDU

**Eaton collaborates with the leaders in converged and hyper-converged infrastructures and provide lab-validated power management solutions** to ensure high uptime of IT systems and data integrity in case of power and environmental issues.
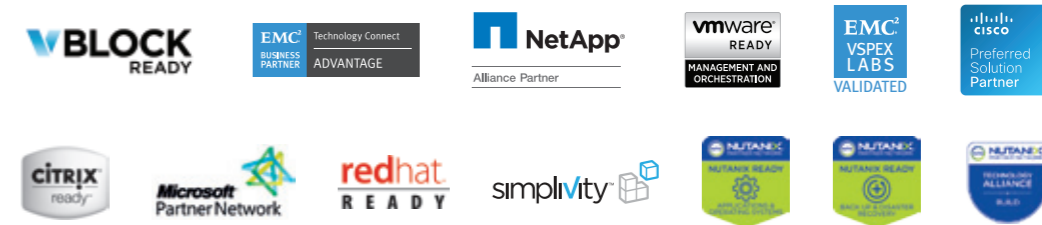
# Key technology features & technical specifications

**Growing functionality**

| Good/Better/Best | Feature | Basic | In-Line Metered | Metered Input | Metered Outlet | Switched | Managed |
|---|---|---|---|---|---|---|---|
| Good | IEC outlet eGrip plug retention: retains all standard IEC plugs | ✓ | N/A | ✓ | ✓ | ✓ | ✓ |
| | Colour-coded outlet and branch circuits for simple load balancing | ✓ | N/A | ✓ | ✓ | ✓ | ✓ |
| | Eaton Hydraulic–Magnetic Circuit Breakers with accidental trip protection | ✓ | N/A | ✓ | ✓ | ✓ | ✓ |
| | Low-profile form factor: 52mm wide x 53mm deep on most models | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 60 Degree C operating temperature | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | Installation: Button mounting on rear & side + variable mounting system | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Better | Hot-Swap eNMC with Advanced LCD + Optional Temp/Humidity sensor | | ✓ | ✓ | ✓ | ✓ | ✓ |
| | ±1% IEC Class 1 Billing Grade Accuracy for V, W, A and kWh | | ✓ | ✓ | ✓ | ✓ | ✓ |
| | Input and Phase Metering, Circuit Breaker Current Metering | | ✓ | ✓ | ✓ | ✓ | ✓ |
| | Daisy-Chain Network 8 ePDUs | | ✓ | ✓ | ✓ | ✓ | ✓ |
| | Standard Units with UK, French and Schuko outlets | | N/A | ✓ | ✓ | ✓ | ✓ |
| | En masse configuration and update available via IPM software | | ✓ | ✓ | ✓ | ✓ | ✓ |
| | Single Pane Monitoring of many ePDUs+UPS as part of the power chain, via IPM | | ✓ | ✓ | ✓ | ✓ | ✓ |
| | Trigger advanced actions including Vmware SRM and VM migration via IPM | | ✓ | ✓ | ✓ | ✓ | ✓ |
| | HTTP, HTTPS, SSL, Telnet, FTP, SNMP, SMTP, DNS, DHCP, LDAP, RADIUS | | ✓ | ✓ | ✓ | ✓ | ✓ |
| Best | Circuit Breaker Status Monitoring | | | | ✓ | ✓ | ✓ |
| | Outlet and IT Equipment Metering across A and B feed | | | | ✓ | ✓ | ✓ |
| | Level 3 PUE measurements | | | | ✓ | ✓ | ✓ |
| | Turn off unused outlets to control commissioning | | | | | ✓ | ✓ |
| | Remote Site Management | | | | | ✓ | ✓ |
| | Outlet and IT Equipment Switching/reboot /sequencing across A and B feed | | | | | ✓ | ✓ |

Column side labels:
- Basic Reliable Power Distribution with integrated plug retention
- Add Metering of to upgrade existing basic PDUs
- Meter the input and Branch circuits
- Meter the input, branch, individual outlets and IT equipment across A and B feed
- Switch individual outlets and IT equipment across A and B feed, plus input and branch metering
- Both Switch and Meter individual outlets and IT equipment across A and B feed

## Part Number / Dimensions table

| Input Type / Rating (A) | Outlet type: Qty | Breakers | Basic p/n | Dimensions L x W x D, mm | In-Line Metered & Dual p/n | Dimensions L x W x D, mm | Metered Input p/n | Dimensions L x W x D, mm | Metered Outlet p/n | Dimensions L x W x D, mm | Switched p/n | Dimensions L x W x D, mm | Managed p/n | Dimensions L x W x D, mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C14 10A | 8XC13 | | EBAB02 | 443x52x53 | | | | | | | | | | |
| | 12XC13 | | EBAB19 | 443x52x53 | | | NEW EMIH02 | 1Ux19"x203 | | | | | | |
| | 16XC13 | | EBAB03 | 704x52x53 | | | EMIB03 | 1070x52x53 | EMOB03 | 1154x52x53 | ESWB03 | 1154x52x53 | EMAB03 | 1154x52x53 |
| C20 16A | 8XFR : 1XC19 | | EFLX8F* | 1Ux19"x80 | | | | | | | | | | |
| | 8XGE : 1XC19 | | EFLX8D* | 1Ux19"x80 | | | | | | | | | | |
| | 6XUK : 1XC19 | | EFLX8B* | 52x19"x120 | | | | | | | | | | |
| | 12XC13 : 1XC19 | | EFLX12I* | 1Ux19"x80 | | | | | | | | | | |
| | 16XC13 | | EBAB21 | 704x52x53 | | | | | | | | | | |
| | 8XC13 | | | | | | NEW EMIH28 | 1Ux19"x203 | | | | | | |
| | 18XC13 : 2XC19 | | | | | | EMIB09 | 1070x52x53 | | | | | | |
| | 20XC13 : 4XC19 | | EBAB22 | 1070x52x53 | | | | | EMOB22 | 1604x52x53 | ESWB22 | 1604x52x53 | EMAB22 | 1604x52x53 |
| IEC60309 16A | 7XC13 : 1XC19 | | | | | | | | | | ESWB23 | 704x52x65 | | |
| | 18XC13 : 2XC19 | | | | | | EMIB10 | 1070x52x53 | | | | | | |
| | 20XC13 : 4XC19 | | EBAB04 | 1070x52x53 | | | EMIB04 | 1070x52x53 | EMOB04 | 1604x52x53 | ESWB04 | 1604x52x53 | EMAB04 | 1604x52x53 |
| | IEC60309 | | | | EILB13 | 443x52x53 | | | | | | | | |
| Dual input | 2 x IEC60309 | | | | NEW EILB24 | 443x65x52 | | | | | | | | |
| IEC60309 32A | 12XC13 : 4XC19 | 2 single pole | | | | | NEW EMIB06 / EMIH06 | 1070x52x53 / 2Ux19"x127 | | | | | | |
| | 20XC13 : 4XC19 | 2 single pole | EBAB05 | 1070x52x53 | | | EMIB05 | 1154x52x53 | EMOB05 | 1604x52x53 | ESWB05 | 1604x52x53 | EMAB05 | 1604x52x53 |
| | 20XC13 : 2XC19 : 2XUK | 2 single pole | | | | | EMIB16 | 1154x52x53 | EMOB16 | 1604x52x53 | ESWB16 | 1604x52x53 | EMAB16 | 1604x52x53 |
| | 20XC13 : 2XC19 : 2XFR | 2 single pole | | | | | EMIB17 | 1154x52x53 | EMOB17 | 1604x52x53 | ESWB17 | 1604x52x53 | EMAB17 | 1604x52x53 |
| | 20XC13 : 2XC19 : 2XGE | 2 single pole | | | | | EMIB18 | 1154x52x53 | EMOB18 | 1604x52x53 | ESWB18 | 1604x52x53 | EMAB18 | 1604x52x53 |
| | 36XC13 : 6XC19 | 2 single pole | | | | | EMIB08 | 1604x52x53 | | | | | | |
| | IEC60309 | | | | EILB14 | 443x52x53 | | | | | | | | |
| Dual input | 2 x IEC60309 | | | | NEW EILB25 | 443x65x52 | | | | | | | | |
| IEC60309 16A 3P | 21XC13 : 3XC19 | | | | | | | | EMOB20 | 1604x52x53 | ESWB20 | 1604x52x53 | EMAB20 | 1604x52x53 |
| | 36XC13 : 6XC19 | | EBAB00 | 1604x52x53 | | | EMIB00 | 1829x52x53 | | | | | | |
| IEC60309 32A 3P | 6XC19 | 6 single pole | NEW EBAB11 / EBAH11 | 704x52x53 / 1Ux19"x203 | EILB15 | 443x52x53 | EMIB11 | 1070x52x53 | | | | | | |
| | 3XC13 : 6XC19 | 6 single pole | EBAB01 | 704x52x53 | | | | | | | | | | |
| | 6XC13 : 12XC19 | 6 single pole | | | | | EMIB07 | 1604x52x53 | | | | | | |
| | 18XC13 : 6XC19 | 6 single pole | | | | | | | | | | | EMAB33 | 1829x52x65 |
| | 12XC13 : 12XC19 | 6 single pole | | | | | EMIB12 | 1604x52x53 | | | | | | |
| | 30XC13 : 12XC19 | 6 single pole | | | | | EMIB34 | 1829x52x65 | | | | | | |
| | IEC60309 | | | | EILB15 | 443x52x53 | | | | | | | | |
| Dual input | 2 x IEC60309 | | | | NEW EILB26 | 443x65x52 | | | | | | | | |

Side labels: 1 Phase / 3 Phase

* Basic G3 features not applicable for the FlexPDU range
  All standard ePDUs come with 3m cable

Standard Models above are in stock in Europe - for others models please contact your local reseller
Need Something Special? Dedicated engineering teams in centres of excellence are available to create your perfect ePDU

# ePDU G3 Accessories

| Accessories | Part Number | Benefits |
|---|---|---|
| Cable ID tags | IDTAG16A IDTAG32A IDTAG16A3P | Identify and mark cables |
| Sensor | EMP001 | Get live measurement on temperature, humidity, set threshold and be notified in real time |
| Adaptor Fast Ethernet Gigabit | GBCONV | Quick and easy way to upgrade your 10/100 Mb network interface G3 ePDU to Gigabit speed |
| ePDU to UPS cables | CBLOUT32 CBL2OUT32 | Connect an ePDU 32A input to the hardwire output UPS |
| Intelligent Power Manager | IPM Basic, Silver, Gold | Monitor and managed multiple ePDUs Trigger actions from ePDUs & sensor events |
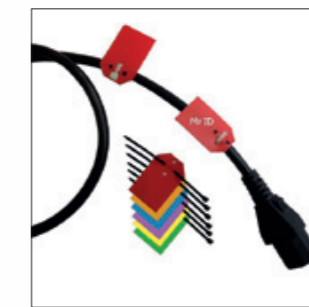


IDTAG16A, IDTAG32A, IDTAG16A3P



EMP001



GBCONV



CBLOUT32



CBL2OUT32

All ePDU G3 come with a 2 years warranty as standard.

Warranty extension up to 3 years (Warranty+) and 5 years (Warranty 5) available

PEP eco PASS PORT

Eaton ePDU Basic G3 has a compliant environmental declaration

**1300 662 435**
poweronaustralia.com.au

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Po Box 5322, Daisy Hill QLD 4127

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# Need Something Special?

- Dedicated engineering teams in 3 centres of excellence are available to create your perfect ePDU

- Specific configurations or complete engineering projects

- Including national socket types, UK, French, Din/Schuko – including combinations of up to 3 types of outlet on an ePDU

- Colored ePDUs now available for the entire range, to easily identify your power source