Rack PDU G4

E·T·N

Powering Business Worldwide

Rack PDU G4 rewrites the rules

When you talked about connectivity, we listened.

Boost efficiency, security, density and flexibility to meet today's data centre priorities Eaton's new rack PDU G4 - 4th generation delivers highly secured power distribution and business continuity, critical in today's data centre space. This has been achieved by in-depth work, incorporating customer experience and marketplace feedback.

Business Continuity and Security

• Enhance the reliability of power connections, **prevent accidental disconnections**.

• Ensure **uninterrupted power supply and network availability** for essential business operations.

• Keep your data flowing without any interruptions. The Rack PDU G4 is designed to provide the **highest level of cybersecurity.**

Sustainable and Smart

• From conception to end-use, G4 PDU has been **designed to reduce energy consumption** whilst **optimising and monitoring power usage** accurately.

• Plan better for extended power failure events and monitor the installation in greater depth with **Environmental data extraction.**

• **Maximize compatibility** by controlling your PDU thanks to the multiple secure communication protocols.

Better User Experience

C39 outlet combines both C13 10A and C19 16A specifications. This offers unprecedented flexibility and ease of use. The only question now is: "how many outlets do I need?" Not "which kind ?".

• Meet specific infrastructure needs and **maximize available rack space** with a wide range of high outlet density PDU.

• Boost uptime and **improve service capability** with the hot-swap network module.

• LCD screen provides an improved user experience **for easier installation/commissioning**.

• **Save time on deployment** and save costs by swapping out equipment without the inconvenience of re-ordering a new rack PDU.

Designed for incremental feature upgrades

According to the latest market trends, the new G4 PDU range provides up to 48 outlets per PDU in a low-profile chassis. Eaton offers extensive PDU configurations including 1-Phase, 3-Phases, and 16A, 32A, 63A to meet specific infrastructure needs.

B asic

Basic G4 PDUs **provide cost-effective, reliable power distribution** with a secure, built-in high retention system to firmly hold standard power cords and a new type C39 outlet that combines C13 and C19 connectors.

Metered Input

Metered input G4 PDUs streamline power management and promotes efficient operations by **simplifying load balancing and preventing overloads.**

Switched

Advanced **control features** at outlet level combined with all power quality measurement capabilities of the Metered Input PDU.

Managed

Managed G4 PDUs incorporate all the features of the switched model and goes a step further by actively **monitoring and measuring** crucial power quality factors such as voltage, current and power consumption at the outlet level.

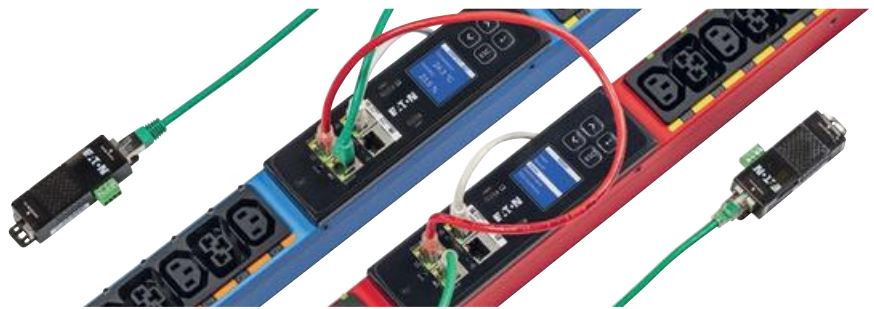# Business continuity and security

The 32 daisy-chained capability of the new G4 PDU range helps you save on unnecessary IT infrastructure, such as extra switches and IP addresses. Furthermore, we have implemented network redundancy in the NMC module to minimize the effect of 'early' breaks in the chain. (RSTP Loop function)

Dual network access is a key feature for colocation environments. Thanks to its twin GB Ethernet ports, the G4 NMC allows both end users and data centre tenants to separately access their PDUs.
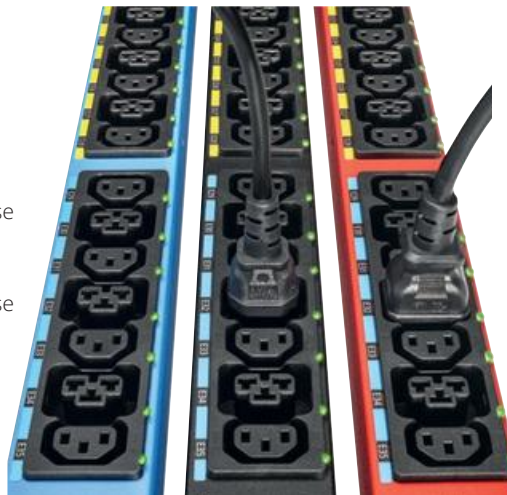
Power Sharing

The NMC also enables one G4 PDU to power up a second PDU's network module control should it lose power, while still enabling the network to access its critical data and connected sensors.

Outlet switching enables you to remotely control devices by powering individual outlets on or off.
Save time and operating costs by rebooting machines from your control centre without costly site visits.

• Sequential server start-up avoids the in
    rush of current – starting your database before the application.

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• Easy turn off of unused outlets prevents unauthorised use.

G4's built-in high retention system at the outlet level enhances power connection reliability by preventing accidental disconnections from vibrations, tugs, or maintenance. G4 PDU outlets are also compatible with P-lock power cords.
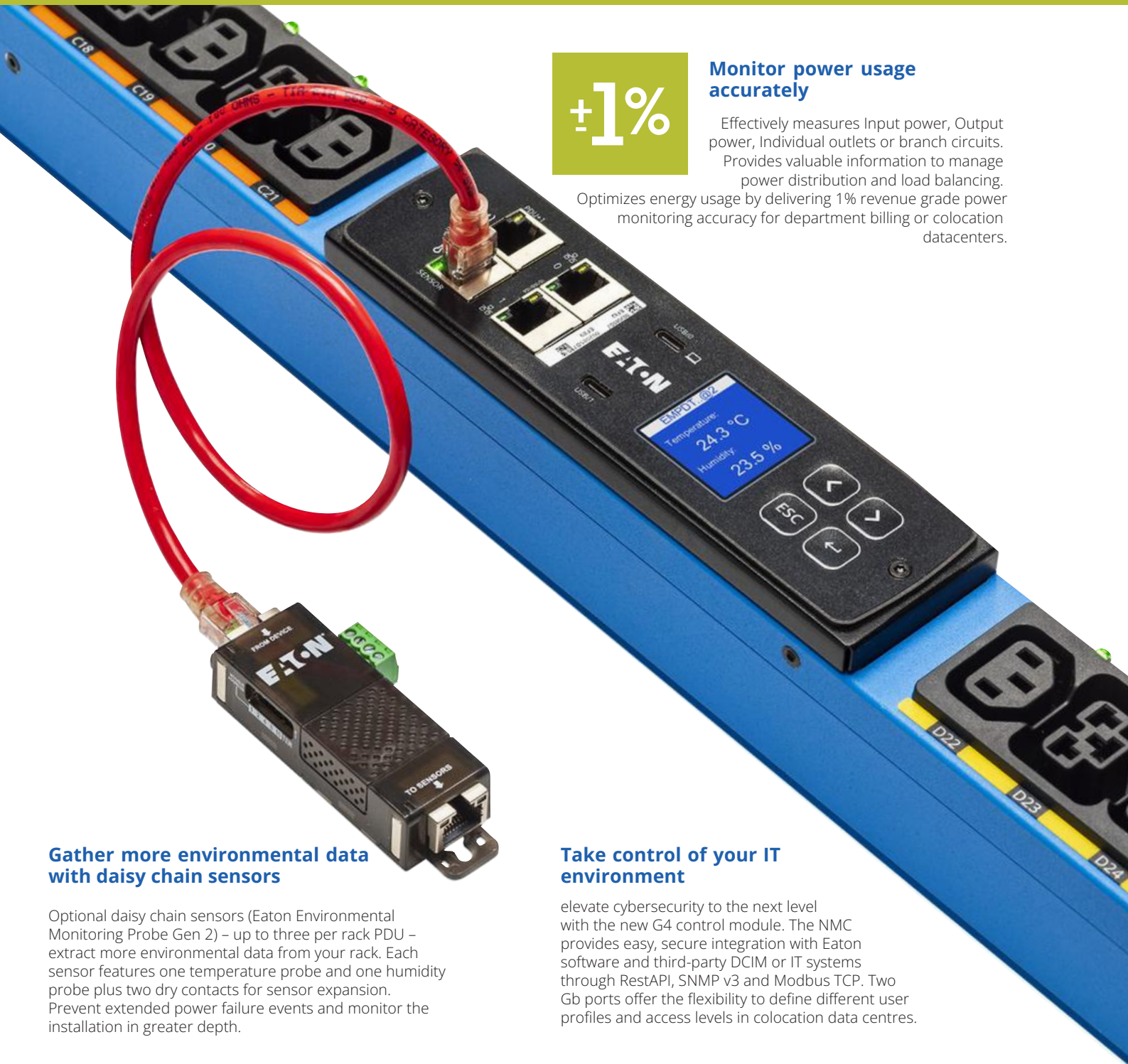
60°C operating capability

We made the G4 PDU more reliable and fully functioning even in high temperate environments, while reducing cooling costs.

Cybersecurity

Cybersecure-certified by independent authorities to UL 2900-1 and IEC 62443-4-2, G4's NMC uses a secured boot process by which it serves as a root of trust device, it is a specially authenticated, first line of defence against intrusion.

±1%

Monitor power usage accurately

Effectively measures Input power, Output power, Individual outlets or branch circuits. Provides valuable information to manage power distribution and load balancing. Optimizes energy usage by delivering 1% revenue grade power monitoring accuracy for department billing or colocation datacenters.

Gather more environmental data with daisy chain sensors

Optional daisy chain sensors (Eaton Environmental Monitoring Probe Gen 2) – up to three per rack PDU – extract more environmental data from your rack. Each sensor features one temperature probe and one humidity probe plus two dry contacts for sensor expansion. Prevent extended power failure events and monitor the installation in greater depth.

Take control of your IT environment

elevate cybersecurity to the next level with the new G4 control module. The NMC provides easy, secure integration with Eaton software and third-party DCIM or IT systems through RestAPI, SNMP v3 and Modbus TCP. Two Gb ports offer the flexibility to define different user profiles and access levels in colocation data centres.

Green solution end to end by design

• **Halogen-free input cable** comes as standard with rack PDU G4. This reduces toxic, polluting emissions in the event of fire, offers greater resistance to corrosive chemicals, and meets the most stringent safety compliance regulations.

• Energy-efficient, **latching relay technology** controls the power supply without the need for continuous electrical input. Rack PDU G4 consumes up to **88% less energy** than a PDU with standard relay.

• Efficient, **eco-friendly packaging** uses recycled and recyclable materials. Compact packaging design also enables higher volumes per consignment that translate into lower transport costs.

PEP eco PASSPORT®

Better user experience

C39 combining C13 and C19 in a single outlet, that securely connect both C14 and C20 power cords. Including visual Led power status.

Watch the video to learn more about C39.

Zero interference to 19" rail work space
Extra flat breakers and low-profile form factor chassis to avoid accidental tripping.

Phase 1

Phase 2

Phase 3

Natural load balancing
The G4 design alternates phase and/or breaker per section on all PDUs, naturally balancing rack power load.

Remotely manage servers
Enhance your power distribution with individual outlet remote control for streamlined energy monitoring and management.

New G4 control module

Boost uptime and enhance service capability with the hot-swap capability of network management and control module. Keep your servers up and running while replacing faulty NMC module.

Total Input
Energy
16.238 kWh
since
07/01/2023
17:32:23

Built-in high retention system
secures standard power cords to outlets.

Dual Gigabit ethernet ports
offer the flexibility to define different user profiles and access levels in colocation data centres.

RNDIS provides an easy way to connect a laptop to the PDU via USB directly (plug & play) to access the PDU configuration during commissioning

HD LCD Screen
Enhanced user experience during installation/ commissioning, thanks to the new high definition, wide-angle colored view display.

3-year warranty for all Rack PDU G4

True mounting flexibility
Factory-mounted buttons combined. with universal mounting brackets enable Eaton rack PDU G4 to fit any rack on the market.

New Rack PDU G4

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