

Benefits of Applying Intelligent PDU Solutions

Arno Stofberg BDM Datacenter Solutions



THE GROUP IN FIGURES

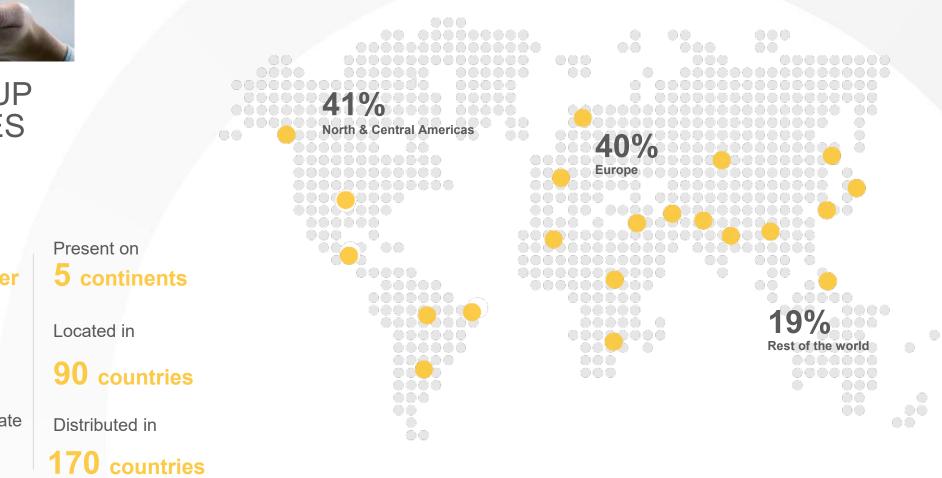
Close to

In 2022 :

8.3B€ turnover

More than **38 000 employees** CSR Achievement rate

123%



TURNOVER BY GEOGRAPHIC AREA



SPECIALIST BRANDS

		*8
	<u> </u>	

Specialist in UPS for industrial applications and datacenters.

modulan

Provider of fully

flexibility to cover

customer needs.

customizable

containment

solutions.

Maximum

CABLOFIL

Raritan.

Proven leader of

intelligent PDUs,

transfer switches,

serial consoles and

Access switches.

Using its global Specialist in passive strength and market data communication leading position, solutions, cabling Cablofil has developed a of data centers, complete range of cable buildings and fiber management solutions. optic infrastructures.

COMP©SE

Server Technology. Leading specialist in customer-driven environmental sensors, power, access and control solutions KVM-over-IP Remote for monitoring and managing critical IT assets.

Starline.

GEIGER

Data center fiber optic

infrastructures, data

center design and

DCIM (monitoring &

and implementation.

management] service

Starline has grown to become a global leader in busbar power distribution equipment

000000000

MINKELS Turn-key hot/cold aisle containment and enclosures for data center infrastructures.

00067000

ZUCCHINI

Zucchini has become a leading brand of cast resin transformers, offering one of the most comprehensive ranges on the market.



4



INTELLIGENT RACK PDU

2020 Market share :			
1 Legrand	28,5%		
2 APC by Schneider Electric	21,0%		
3 Vertiv	13,5%		
4 Eaton	5,0%		
5 Chatsworth Products (CPI)	2,5%		
6 CyberPower	2,0%		

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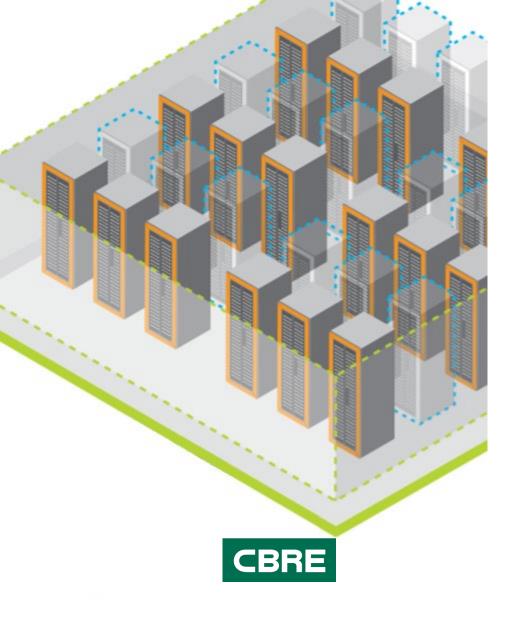
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Better understanding of data center cost and lifespan

Raritan & Server Technology







MANY FACTORS TO CONSIDER

EQUIPMENT LIFE EXPECTANCY...

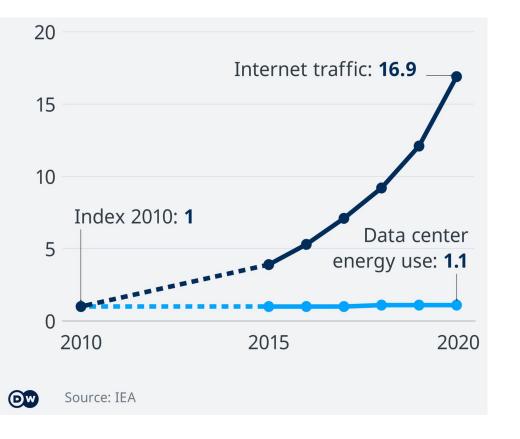
AVERAGE DATA CENTER LIFE EXPECTANCY	10-15 years

- DEFINED PDU LIFE EXPECTANCY*
 8-12 years
- AVERAGE LIFE EXPECTANCY OF A SERVER 3-5 years
- IT EQUIPMENT'S REFRESH CYCLE
 2-5 years

...WOULDN'T YOU WANT A POWER INFRASTRUCTURE THAT'S **RELIABLE, FEATURE RICH** AND **FUTURE PROOF**?







POWER CONSUMPTION SEEMS STABLE

- EFFICIENCY & OPTIMALISATION
- DENSITY & VIRTUALIZATION
- REDUNDANCY IMPACTS EFFICIENCY

...IS YOUR INFRASTRUCTURE SUFFICIENTLY REDUNDANT WHILE OPERATING IN AN EFFICIENT WAY?

RENOWNED POWER REVOLUTIONARY INTELLIGENCE

INTRODUCING THE ALL-NEW

4th Gen Raritan iPDU

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Power Distribution Units

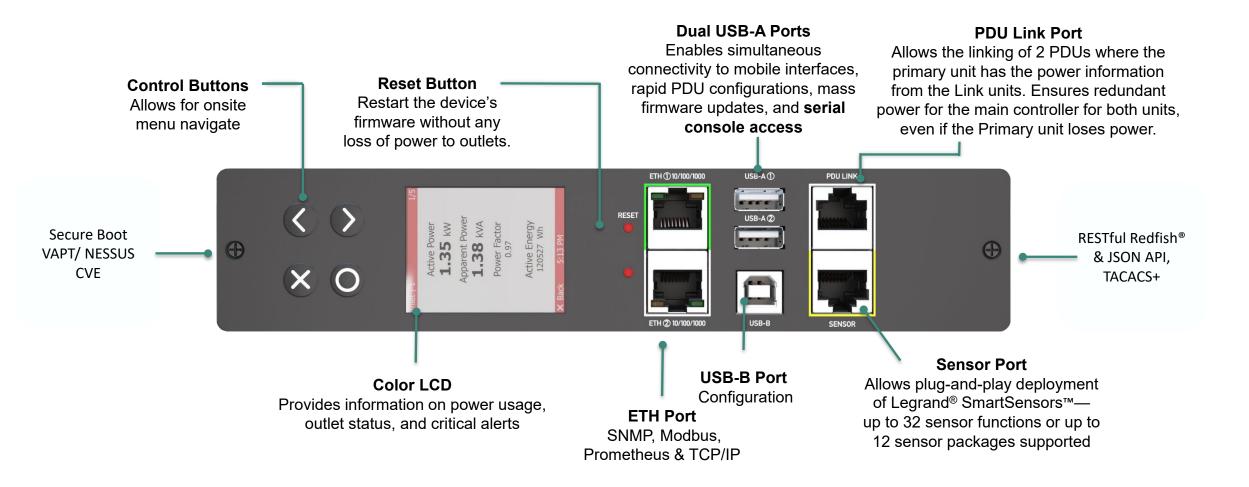
MAJOR CHALLENGES NEARLY ALL DATA CENTERS NOW FACE

- Power capacity and provisioning
- Energy management
- Environment management
- Physical and network security
- Remote control and management

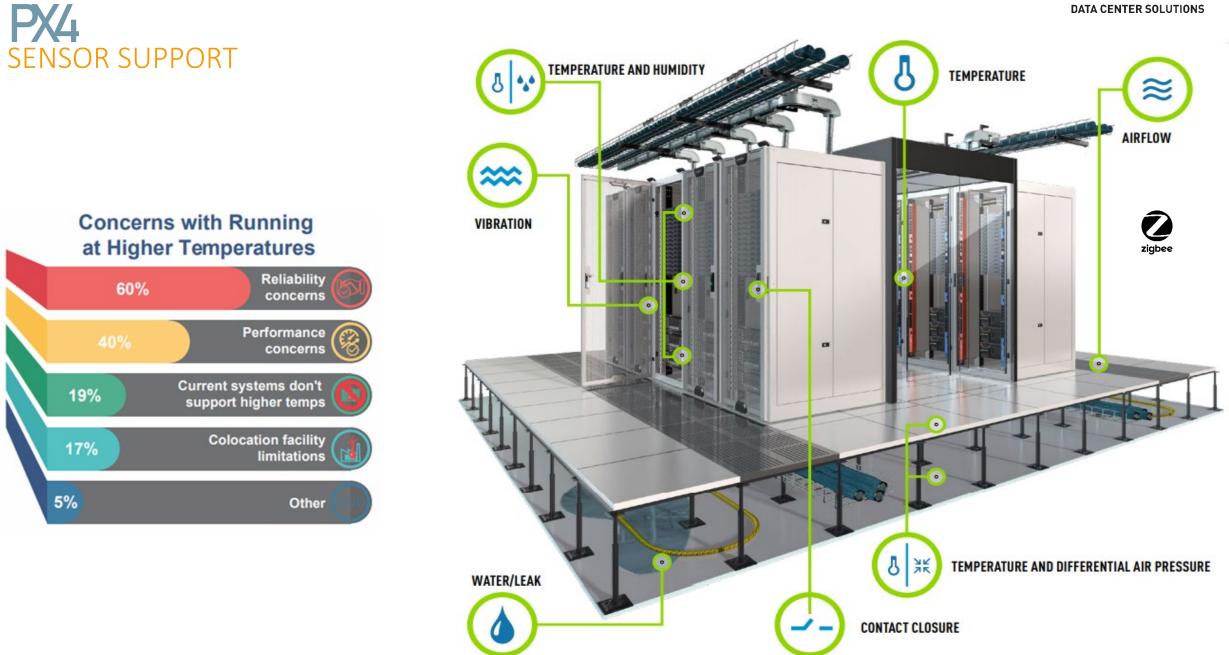




PX4 IX CONTROLLER



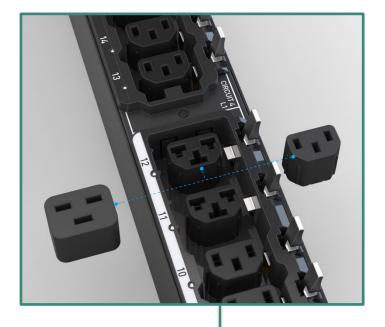




PX4 Rack PDUs HDOT Cx Outlets

Our patented and industry-first Cx Outlet **combines an IEC C13 and C19 into one flexible high-density outlet,** accommodating both C14 and C20 plugs.

Reliable alternative to modular PDUs.



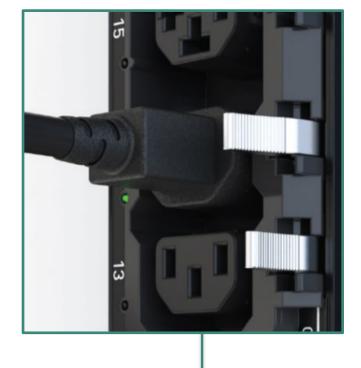






PX4 Rack PDLs RamLock Mechanical Locking Technology

RamLock is a rugged, intuitive, and high-strength **outlet and power cord locking system** that secures C14 and C20 plugs to the PDU without requiring special cables, sleeves, or adapters.





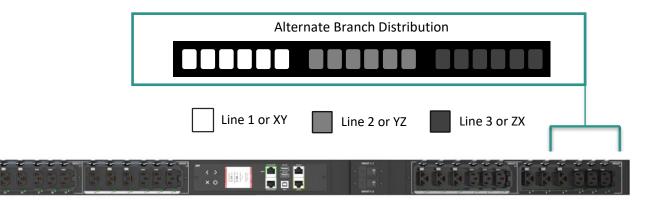


PX4 Rack PDLs Aternating Phase Power Distribution

A single column of outlets **distributes three-phase power** on a per outlet basis down the entire length of the PDU.

Each outlet is in a repeating and easily distinguishable pattern to evenly distribute the power over the entire rack.





PX4 Rack PDLs Bi-Stable Latching Relays

- Biggest value = less energy and less heat
- Sophisticated outlet-sequencing to power on/off outlets individually or in groups, or in a prescribed order, to minimize high inrush performance
- Relays maintain their switching position in the event of a power supply failure.







Metering technology, accuracy and applications





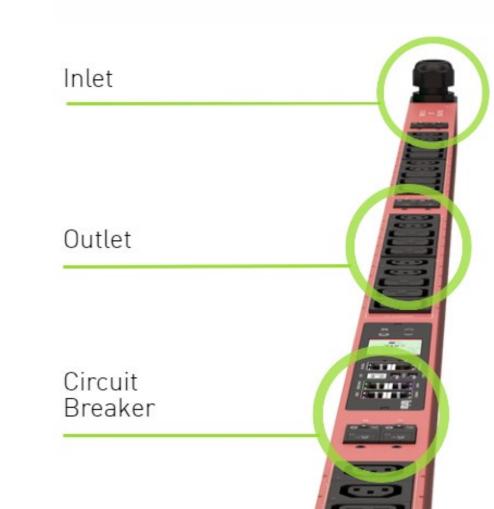
Power Quality Measurements

Offers the most complete and accurate (±0.5%) set of power quality monitoring and metrics, at the rack.

IEC 61557-12 PMD III EN 50600-2=2 IEC 62053-22 Class 0.5S

	Level 1 (Basic)	Level 2 (Intermediate)	Level 3 (Advanced)
IT Equipment Power Measurement From	UPS	PDU	Server,
Total Facility Power Measurement From	Data Center input power	Data Center input less shared HVAC	Data Center input less shared HVAC plus building lighting, security
Minimum Measurement Interval	Monthly/Weekly	Daily	Continuous (xx min)







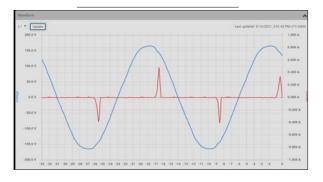
PX4

Advanced Power Quality Measurements

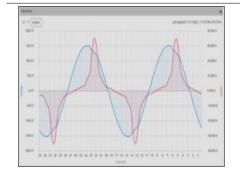
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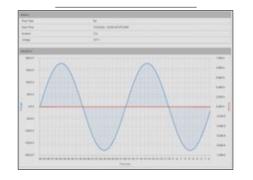




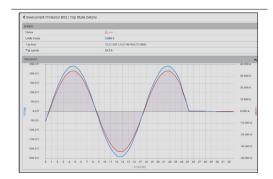
Continuous Harmonic Monitoring and Alerting







Circuit Breaker Trip Forensics



PX4 TAKEAWAYS

- The latest generation of the Global market Leader
- Advanced and accurate metering
- Market leading feature set
- Reliable and efficient switching
- Secure and dynamic firmware





Thank you!

Arno Stofberg **BDM Data Center Strategy**

Select your PDU www.findmypdu.com