

Wireless Smart Power Cables are the easiest way to add metering to any device that has a plug.

Ideal for:

- Easily turning basic cabinet PDUs into smart PDUs
- Monitoring non-power strip devices such as SANs, mainframes and switches
- Avoiding the need to run data communication wiring to cabinets
- Metering virtually any plug-level load

Smart Power Cables

Power cables with embedded wireless power monitors



Model	3	K
Туре	Single-phase	Single- and Three-phase
Voltage	100 - 240	100 - 480
Amperage	10 - 32	16 - 100

- Accurately measure V, A, W, Wh, VA, Hz and PF on single- and three-phase circuits
- Compatible with IEC, NEMA, regional and specialized connectors
- Standard and custom cable lengths available
- Work with hardware from any vendor

Model

- View data instantly using EMX Energy Portal or access data using standard SNMP or Modbus protocols
- Plug-and-play installation; no network cable drops or electricians required

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Why Smart Power Cables



Plug-and-play installation

- Install in minutes
- No network cable drops
- No electricians



Wireless that works

- Proven reliability with tens of thousands of units installed worldwide
- Use unique wireless protocol (not WiFi or ZigBee)



Open

- · Compatible with any existing hardware
- Send data to any DCIM or BMS using SNMP or Modbus TCP/IP



Cost less

- No costly IT resources needed for installation or ongoing support
- Fully self-configuring



Secure

- Wireless protocol purpose-built for monitoring only
- Full separation of wireless monitoring and wired data networks

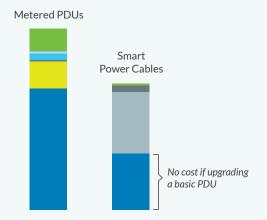


Scalable

- Automatically adapt when units are added or removed
- Grow easily from 10's to 1,000's of units

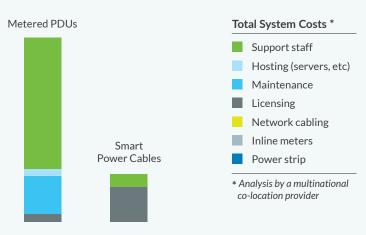
Highly Cost Effective

Adding a Smart Power Cable to your PDU often costs far less than a metered PDU and delivers the functionality of a full featured power monitoring system.



30% savings Year 1

- No network cable drops and configuration
- Simple and quicker installation

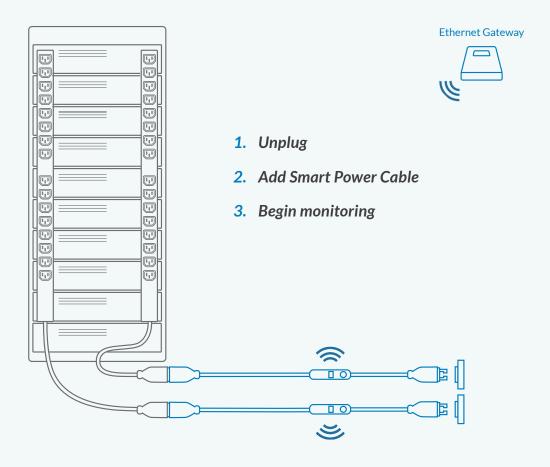


Over 70% savings Years 2+

- Significantly lower support staff requirements
- Minimal ongoing maintenance requirement
- Note the license costs reflect an optional hosted DCIM subscription

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True Plug-and-Play Installation



Packet Power Wireless Mesh

The most proven wireless monitoring system for data centers worldwide

Packet Power's self-configuring mesh network makes installation simple. Adding new monitors and gateways is easy as the system automatically configures and manages itself. Because the system determines the optimal path for every transmission, performance stays consistent even as the network grows.

The unique wireless monitoring protocol is different than WiFi or Zigbee and was purpose-built for data centers. It uses 900 MHz and 2.4 GHz frequencies that can only be used for monitoring. It allows for a complete separation of the wireless monitoring network from the wired data network, supports full encryption and is certified for use worldwide. The resulting mesh network is more resilient and secure than other systems.

Packet Power monitoring

Packet Power monitoring

Alternate path
Wired connection

SNMP Modbus

PACKET POWER

Action The Systems

Ethernet Gateway

DCIM/BMS application

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Technical Specifications

Measurement

Measurements	V, A, W, Wh, VA, Hz, PF	
Accuracy	± 1.0%	
Input voltage	100 - 480V AC	
Current range	Up to 100A	
Circuit types	Single- and three-phase	

Communications

Operating frequency	860 to 930 MHz and 2.4 GHz (frequencies vary by region)	
Wireless network protocol	Frequency hopping self-configuring load-balancing mesh	
Data output (Gateway)	SNMP and Modbus TCP/IP protocols	
Firmware updates	Wireless	
Typical transmission range	10 to 30 meters indoors between any two devices in mesh network	
Antenna	Fully enclosed, fixed configuration	
Cable to gateway ratio	Over 100 cables per gateway with unlimited gateways per site	
Multi-site support	Yes	
Encryption	Optional	
Local display	Volts, Amps and Watts	

Environmental & Mechanical

Operating environment	7° to 75°C (20° to 167°F); 5% to 95% non-condensing			
Water and dust resistance	Not rated			
Size and weight (for standard cable length)				
S models under 16A	150 cm (60 in); 0.45kg (1 lb)			
S models 16A and above	120 cm (48 in); 0.75 - 1.0 kg (1.5 to 2 lbs)			
R models	120 cm (48 in); 1.5 - 3.0 kg (3.5 to 7 lbs)			
Power usage	0.6W			
Certifications	UL/ANSI 61010-1; CAN/CSA-C22.2 No. 61010-1 (ETL); FCC Class B; CE (IEC/EN 61010-1:2001, ETSI EN 300 220-2, ETSI EN 301 489-3, IEC/EN 61326-1); ICASA; AS/NZA 4268:2008			

Connector Types

Model	NEMA	IEC	Other
S (single-phase)	5-15/L5-15, 5-20/L5-20, L5-30, 6-15/L6-15, 6-20/L6-20, L6-30	60320 C13/C14, 60320 C19/C20, 60309 2P+E 6h	Schuko CEE7-7, AS/NZA 3112 2000, BS 1363A (UK), BS 546A (India, South Africa)
R (single-phase)		60309 2P+E 6h, 360_6W	CS8264/8265, 3720/3913, 3750/3933, 3720U-1/3913U-1, 3720U-2/3913U-2, 9_23U2, 9_23U0, 9_33U0, 9_53U2, 9_63U2
R (split-phase)	L14-20, L14-30, L14-50		
R (3-phase Wye)	L21-20, L21-30, L22-22, L22-30	60309 3P+N+E 6h, 60309 3P+N+E 9h, 60390 3P+N+E 6h, 516_6W, 532_6W, 530_6W, 560_6W, 563_6W	
R (3-phase Delta)	L15-20, L15-30	420_9W, 430_9W, 460_9W, 420_7W, 430_7W, 460_7W	CS8365/8364, Russell Stoll, IBM D/3760, 3934, 7428, 9_54U2, 9_64U2

NOTES: Custom connectors available

All cables also available in a whip format (no connectors)



 $[\]begin{tabular}{l} ``_" in a connector indicates available as P, C or R; for example $360_6W is available with $360P6W$, $360C6W or $360R6W is available with $360P6W$, $360C6W or $360R6W$ is available with $360P6W$, $360C6W$ or $360P6W$, $360P6W$$