

## 48V DC Monitoring Made Easy

Easily monitor 48V circuits of any amperage.  
All units measure Volts, Amps, Watts and Watt hours at  $\pm 1.0\%$  accuracy  
and support DIN clip, cable tie or adhesive pad mounting.

### Benefits



#### Installs easily

- Small size
- No networking wires
- Instant access to data



#### Costs less

- Lower purchase price
- Lower installation costs
- Fully self-configuring and self-optimizing system lowers ongoing support costs



#### Secure

- Unique purpose-built protocol can only be used for monitoring
- Full separation of wireless monitoring and wired data networks



#### Scalable

- Automatically adapts when units are added or removed
- Grows easily from 10's to 1,000's of monitors



#### Wireless that works

- Robust mesh network design
- Proven in data centers worldwide



#### Open

- Access data using SNMP or Modbus
- Compatible with any hardware

### Monitor Types



#### Wireless Power Monitor: Integrated CT

35 or 65 Amp current sensors.  
Fits conductors up to 8mm in diameter.



#### Wireless Power Monitor: External CT

35 to 3,000 Amp current sensors.  
Split or solid core CTs.

### Measurement

Monitoring channels per device	One
Measurements	Current, Voltage, Power (Watts), Energy (Watt hours), Charge (Ah). Energy import and export (Wh) and charge import and export (Ah) are reported independently.
Accuracy	±1.0% accuracy (CT dependent)
Integrated current transducer	35A or 65A solid core (8.5mm window)
External current transducer	35-3000A solid core and split core versions (see CT specifications for details)

### Communications

Operating frequency	2.4 GHz
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
Monitoring Unit to gateway ratio	Up to 150 monitoring units per gateway with unlimited Gateways per site
Multi-site support	Yes
Encryption	128-bit encryption

### Environmental & Mechanical

Operating temperature	0° to +70°C (+32° to +158°F)
Operating humidity	10% to 90% non-condensing
Water and dust resistance	NEMA 1/IP20 (indoor use)
Module size	Base: 52mm x 35mm; Height: 22mm (external CT), 33mm (integrated CT)
Input voltage range	24-60 VDC
Power consumption	<0.6W

## 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. Using 900MHz and 2.4GHz frequencies, it is certified for use worldwide. The resulting mesh network is more resilient and secure than other systems.

