



# Packet Power<sup>®</sup> Power Lab



## Introduction

Power Lab makes it easy to use Packet Power's unique "smart power cable" technology to capture detailed data on many aspects of electrical power consumption.

## Overview

Power Lab receives, stores and analyzes data from multiple Packet Power smart power cables. Data is gathered from the cables using Packet Power's advanced wireless mesh data network. Power Lab logs the data in a local database for detailed analysis and reporting. It is easy to define multiple data sets that vary based on the time period, mix of power cables and data attributes to be used.

Power Lab can run in a single location or centralize analysis of data from up to four locations.



## Packet Power Lab

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### Data views

View name	Nodes included	Channels included	Resolution	Display	Export	Edit	Delete
CRT vs LCD	CRT (8D00-0000-0000-20D5) LCD (D900-0000-0000-20EB)	AvgCurrent AvgPower AvgVAR AvgEnergy AvgTemperature	0 min 10 sec	<a href="#">Display</a>	<a href="#">Export</a>	<a href="#">Edit</a>	<a href="#">Delete</a>
Office Circuit	Computers (8300-0000-0000-20BD) CRT (EB00-0000-0000-20D6)	AvgCurrent AvgPower AvgVAR AvgEnergy AvgFrequency	0 min 10 sec	<a href="#">Display</a>	<a href="#">Export</a>	<a href="#">Edit</a>	<a href="#">Delete</a>
Total Usage	Node20BD (8300-0000-0000-20BD) Node20D5 (8D00-0000-0000-20D5) Node20CA (A700-0000-0000-20CA) Node20B7 (D000-0000-0000-20B7) Node20EB (D900-0000-0000-20EB)	MaxCurrent AvgEnergy AvgTemperature	0 min 1 sec	<a href="#">Display</a>	<a href="#">Export</a>	<a href="#">Edit</a>	<a href="#">Delete</a>

[Create a new data view](#)

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## Key features

- Measured parameters: voltage, current, power, volt amps, energy consumed, frequency and temperature
- Accuracy: +/- 1% is standard with higher grades available
- Temporal resolution: user specified down to 1 second
- Number of monitoring points: up to 20 per gateway
- Number of gateways: one to four, can be in multiple locations
- Data formats supported: XML, Excel, Access, text (CSV, TSV)



## Summary

- Monitors power and temperature in detail at intervals one second or higher
- Flexible and portable system installs easily with minimal technical configuration
- Gathers data from multiple remote locations with full web-based reporting
- Supports a wide range of power cable types

## Solution Components

- Record true power usage in real time using advanced energy monitors embedded in "smart power cables"
- Measures multiple power parameters
- Monitors temperature precisely
- True "plug and play" design
- Gathers data from up to 20 smart power cables in one location via a wireless mesh radio network
- Each Power Lab can gather information from up to four gateways providing support for as many as 80 total monitoring points.

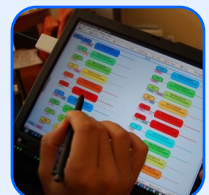
### Smart Power Cables



### Wireless Network



### Power Lab Software



- Controls the type of information captured, the level of detail retained, the type of analysis performed and the format the data is stored in.
- Provides real-time data display as well as Web-based access to detailed power data
- Simple, intuitive user interface