



## WaveStar® Infinity Monitoring System

Equipment Monitoring and Metering For The Most Demanding Applications

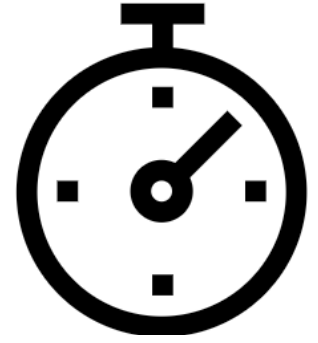
WaveStar® Infinity provides facilities and businesses with the most advanced power distribution equipment monitoring and metering solution to help them make prompt and informed decisions to support fault detection, energy management and tenant billing applications.

- Real-Time Monitoring & Notification
- Revenue Grade Metering Accuracy
- Broad Monitoring and Metering feature support
- Advanced Network Integration Capability
- Intuitive Full Function Display

## Real-time Monitoring and Notification

WaveStar® Infinity is designed for real-time sensing, measuring, collecting, calculating, reporting and alarming of all electrical and equipment performance metrics.

- Real-time monitoring
- Low-latency response
- 100% Ethernet Connectivity



## Revenue Grade Data Accuracy

WaveStar® Infinity ensures that you have metering data at the level of precision you need to accurately monitor consumption and validate your results.

- Revenue Grade
- 1% Error
- Energy Management

## Broad Monitoring & Metering Feature Support

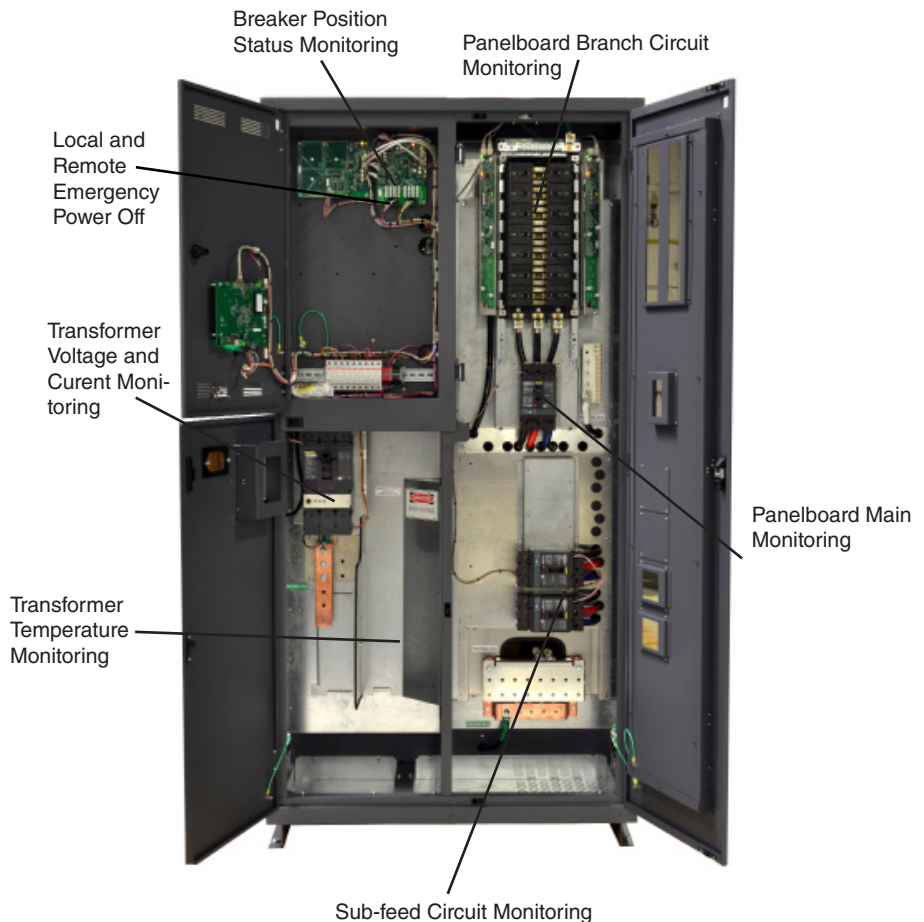
WaveStar® Infinity supports a variety of optional monitoring and metering features both today and well into the future.

- Breaker Position & Trip Monitoring
- Panelboard Branch Circuit Monitoring
- Panelboard Mains Monitoring
- Sub-Feed Monitoring
- Transformer Performance Monitoring
- Power Quality Monitoring

## Advanced Network Integration Capability

The combination of multiple physical connection options, high data transfer rates and standard protocol support makes communication and integration with WaveStar® Infinity easy and versatile.

- Modbus RTU
- Modbus TCP
- SNMP (Version 1 & 2)
- HTML 5 Web Server







## General

- Operating Temperature 0° to 60° C (32° to 140°F)
- Storage Temperature -40° to 70° C (-40° to 158° F)
- <95% Relative Humidity, non-condensing
- Control Power 90 VAC to 500 VAC (Line-to-Line)
- Data Sample Resolution of 24-bit per channel
- Frequency Range of 50Hz or 60Hz
- Sample Rate of 7680Hz per channel
- Maximum Data Refresh Rate of 1 second

## Transformer Monitoring

- Voltage Range Support of 208V (L-L) to 600V (L-L)
- Transformer Configuration support:
  - oDelta-Delta ( $\Delta$ - $\Delta$ )
  - oDelta-Wye ( $\Delta$ -Y)
  - oWye-Wye(Y-Y)
  - oDelta( $\Delta$ )-ZigZag
  - oWye(Y)-ZigZag
- Support for Local & Remote Emergency Power Off (EPO)
- Measured or Calculated Values
  - oVoltage (L-L & L-N)
  - oFrequency
  - oCurrent Demand (Per Phase, Neutral & Ground)
  - oCurrent Peak (Per Phase, Neutral & Ground)
  - oReal Power (Per Phase & Sum)
  - oApparent Power (Per Phase & Sum)
  - oReactive Power (Per Phase & Sum)
  - oEnergy (Per Phase & Sum)
  - oPower Factor (signed)
  - oTransformer Temperature (Normal/Elevated/Alarm)

## Sub-Feed Monitoring

- CT Ratings of 100A to 3200A
- Measured or Calculated Values
  - oCurrent Demand (Per Phase, Neutral & Ground)
  - oCurrent Peak (Per Phase, Neutral & Ground)
  - oReal Power (Per Phase & Sum)
  - oApparent Power (Per Phase & Sum)
  - oReactive Power (Per Phase & Sum)
  - oEnergy (Per Phase & Sum)
  - oPower Factor (signed)

## Display

- 7 Inch Color Touchscreen
- Capacitive Touch Technology
- 800x480 Resolution
- Audio Speaker

## Network Integration

- Ethernet RJ-45
- Serial RS-485 (4-wire & 2-wire)
- Serial Baud Rate of 9.6k to 115.2k (Configurable)
- Native Modbus RTU
- Native Modbus TCP
- SNMP (Version 1 & Version 2)
- Native TCP/IP WebServer (HTML 5 Support)

## Panelboard Monitoring

### *Mains Monitoring*

- CT Ratings of 100A to 3200A
- Voltage Range of 208V (L-L) to 480V (L-L)
- Measured or Calculated Values
  - oFrequency
  - oVoltage (L-L & L-N)
  - oCurrent (Per Phase, Neutral & Ground)
  - oReal Power (Per Phase & Sum)
  - oApparent Power (Per Phase & Sum)
  - oEnergy (Per Phase & Sum)
  - oPower Factor (signed)

### *Branch Circuit Monitoring*

- Maximum CT rating of 100A
- Measured or Calculated Values
  - oCurrent (Demand & Peak)
  - oPower (Real, Apparent)
  - oEnergy (kWh)
  - oPower Factor (signed)



### **About Power Distribution, Inc. (PDI)**

Power Distribution, Inc. (PDI) is the pioneer of innovative power transformation, power distribution, and intelligent power monitoring solutions for mission-critical operations. The company leverages their ISO standards-based manufacturing facilities in Virginia and California, as well as partner and customer collaborations, to create the broadest range of award-winning solutions in the industry. Through the PDI and ONYX brand names, these industry leading solutions are sought after by data center, industrial and other mission-critical facilities and backed by continued global service and support. The net result: One company to provide and to service the end-to-end power needs of a 24x7 connected world. For more information, please visit [www.pdicorp.com](http://www.pdicorp.com)

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