Product brochure

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 and 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.

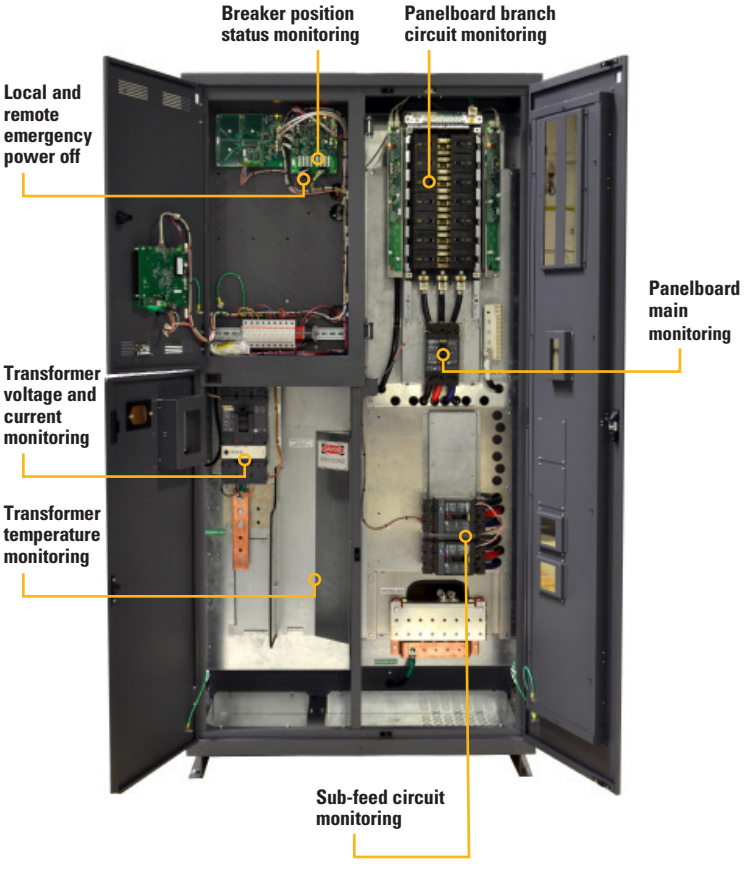
- Revenue grade
- 1% error
- Energy management

Powering Business Worldwide

Broad monitoring and metering feature support

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

- Breaker position and trip monitoring
- Panelboard branch circuit monitoring
- Panelboard mains monitoring
- Sub-feed monitoring
- Transformer performance monitoring
- Power quality monitoring

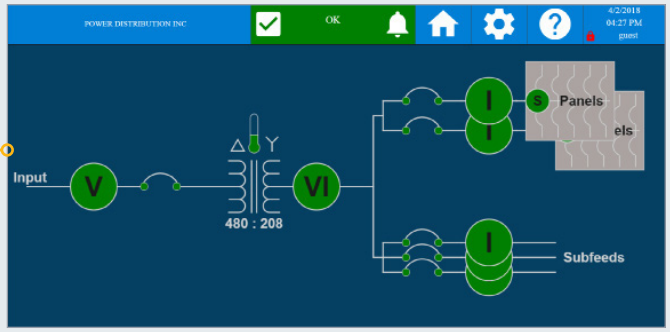


Intuitive full function display

WaveStar Infinity comes standard with both local and remote access to your equipment monitoring and metering solution making it easier than ever to visualize, navigate, manage and configure your power distribution equipment monitoring.

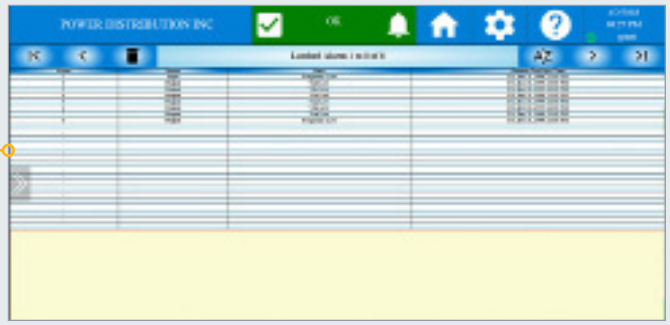
- Local 7" color display
- Intuitive real-time user interface
- On-screen configuration and setup
- On-screen alarm management
- Remote web browser access
- User access controlled

Home page



Metered and calculated values

Alarm page



Setup and configuration

Technical specifications

Ratings	
kVA rating, 100 kVA – 400 kVA	
Input: 3-phase, 3-wire plus ground	
Input Voltage	@ 50 Hz: 380V – 415V @ 60 Hz: 600, 480 or 208
Output: 3-phase, 4-wire plus ground	
Output Voltage	@ 50 Hz: 575, 415/240, or 380/230V128 @ 60 Hz: 600, 575, 480, or 208/120V
200% neutral busbar connection	
Listed to UL 60950-1, CSA C22.2#60950-1, UL 891, IEC60950-1, EN 60950-1, EN 61000-6-2, EN 61000-6-4	

Transformers

- Voltage range support of 208V (L-L) to 600V (L-L)
- Transformer configuration support:
  - Delta-Delta (Δ-Δ)
  - Delta-Wye (Δ-Y)
  - Wye-Wye(Y-Y)
  - Delta(Δ)-ZigZag
  - Wye(Y)-ZigZag
- Support for local and remote Emergency Power Off (EPO)
- Measured or calculated values
  - Voltage (L-L & L-N)
  - Frequency
  - Current demand (per phase, neutral and ground)
  - Current peak (per phase, neutral and ground)
  - Real power (per phase and sum)
  - Apparent power (per phase and sum)
  - Reactive power (per phase and sum)
  - Energy (per phase and sum)
  - Power factor (signed)
  - Transformer temperature (normal/elevated/alarm)

Sub-feed monitoring

- CT ratings of 100A to 3200A
- Measured or calculated values
  - Current demand (per phase, neutral and ground)
  - Current peak (per phase, neutral and ground)
  - Real power (per phase and sum)
  - Apparent power (per phase and sum)
  - Reactive power (per phase and sum)
  - Energy (per phase and sum)
  - Power factor (signed)

Operating conditions	
Operating temperature	0° to 60° C (32° to 140°F)
Storage temperature	-40° to 70° C (-40° to 158° F)
Relative humidity	<95%, non-condensing
Control power	90 VAC to 500 VAC (Line-to-Line)
Data sample resolution	24-bit per channel
Frequency range	50Hz or 60Hz
Sample rate	7680Hz per channel
Maximum data refresh rate	1 second

Display

7 inch color touchscreen

Capacitive touch technology

800x480 resolution

Audio speaker

Network integration

Ethernet RJ-45

Serial RS-485 (4-wire and 2-wire)

Serial baud rate of 9.6k to 115.2k (configurable)

Native Modbus RTU

Native Modbus TCP

SNMP (version 1 and 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
  - Frequency
  - Voltage (L-L & L-N)
  - Current (per phase, neutral and ground)
  - Real power (per phase and sum)
  - Apparent power (per phase and sum)
  - Energy (per phase and sum)
  - Power factor (signed)

Branch circuit monitoring

- Maximum CT rating of 100A
- Measured or calculated values
  - Current (demand and peak)
  - Power (real, apparent)
  - Energy (kWh)
  - Power factor (signed)

Customization

Eaton is dedicated to providing customized solutions to meet the specific requirements of your application. Contact us at +1.804.737.9880 for further information and support.

Service and support

After your equipment has been installed, call on the Eaton service team, at 1.800.225.4838, for 24/7 support.

For more information, please visit:
Eaton.com/infinity

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