BOLT™

The Bolt is a versatile and affordable power quality recorder that can help find PQ complaint root causes and verify regulatory compliance. With its unique size and shape - you can easily investigate power quality complaint root causes in tight spaces, such as a meter base, cap bank, and other existing enclosures.

FIND PQ ROOT CAUSES

- Variable Frequency Drive problems
- Equipment shutdowns
- Flickering Lights
- Equipment damage
- Voltage Imbalance
- Under/Overvoltage

INVESTIGATE

- Measure voltage quality and load current characteristics
- Verify regulatory compliance
- Distributed generation testing and troubleshooting
- EV charging station studies

EASY TO USE

- Unique shape and CTs for small meter bases or cabinets
- Connect wirelessly to a smart phone, tablet, or laptop to view live data, download, or initialize
- Built-in WiFi and Bluetooth for access behind closed covers or from the ground
- LED-guided install to ensure proper hookup
- Weatherproof design for use outdoors

pmi®

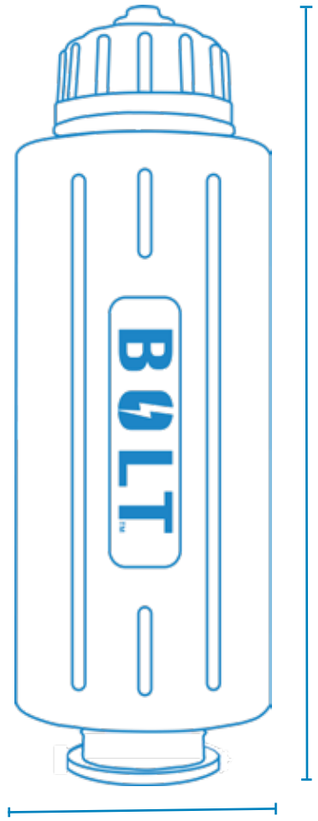
www.powermonitors.com

(800) 296-4120

BOLT™

INPUTS	AC Voltage	0 to 600 V RMS continuous per phase
	AC Current	0 to 5000 A RMS
	Sample Rate	15,360 samples/second 256 samples/cycle
CHANNELS	Voltage	3 channels
	Current	3 channels
MEASURED QUANTITIES PER CYCLE	RMS Voltage	Volts
	RMS Current	Amps
	Real Power	Watts
	Apparent Power	VAs
	Reactive Power	VARs
	Phase Angle	Degrees
	Power Factor	Watts/VA
	Displacement PF	cos (phase angle)
	Power Usage	kWh, kVARh, kVAh
ACCURACY	Voltage	0.33% of full scale
	Current	1.0% of full scale w/o probe
	Power	1.0% of full scale w/o probe
	Phase Angle	1.0° w/o probe
	Power Factor	±0.02 w/o probe
	Displacement PF	±0.02 w/o probe
POWER FAIL OPERATION	5 minutes with super capacitor ride through for recording	
HARMONICS	Voltage	to the 51st
	Current	to the 51st
	Measures	Magnitude, phase, THD
SAFETY	Designed to IEC 61010-1, 600 V CAT III	
TIME SYNCHRONIZATION	User-configurable SNTP time synchronization through WiFi.	

COMMUNICATIONS	Standard	Wi-Fi, Bluetooth, USB
	Options	LTE Cell Modem
INFORMATION STORAGE	Data Storage	128 MB onboard storage, unlimited cloud storage
RECORD SETTINGS	Interval Graphs	1 cycle to 4 hour interval, user selected, stop-when-full or wrap-around memory modes
	Significant Change	1 V to 8 V in 1 V steps
	Flicker Settings	User-defined, or conform to IEEE 1453/ IEC 61000-4-15, and IEEE Std. 141
	Waveform Capture	Voltage and current threshold, periodic capture, waveshape, event cross triggers
POWER SUPPLY REQUIREMENTS	Voltage	60-600 VAC Channel 1 to Common (47-63-HZ)
	Power Consumption	3 Watts max, 5 VA max at 600 V
ENVIRONMENTAL	Operating Temp	-20° F to +135° F
	Humidity	Less than or equal to 85%
	Shock	60 Hz to 2 kHz, acceleration 25 G
	Vibration	10 Hz to 60 Hz, amplitude 1.8 mm
	Max Altitude	2.0 km (6560 ft), derated above 2.0 km
PHYSICAL DIMENSIONS	Size	1.78" x 4.79"
	Weight	less than 1 lb
	Case	NEMA 4X



Features & Benefits

The Bolt is a small full-function power quality recorder. It can record up to 3 channels of AC voltage from 0-600 VAC, as well as 0-5,000 amps with current probes. It has the abilitiy to record voltage and current harmonics to the 51st, and record all power functions. The Bolt power quality recorder is well-suited to record PQ data onsite.

Communication Options:

The Bolt features Wi-Fi, Bluetooth, and cellular connectivity for seamless access anywhere. Stream real-time data to your laptop or iOS device over Wi-Fi, even inside enclosures. Cellular communication ensures remote access when Wi-Fi isn't available, while USB allows quick downloads of stored PQ data.

Data Storage:

The Bolt features 128 MB of memory, making it a long term storage option for power quality data storage to download for detailed analysis.

Real-Time PQ Data:

Display waveforms and harmonic values for triggered events on all monitored channels, and view them in real-time wirelessly via Wi-Fi.

24/7 Technical Support

Call Us Anytime

Power Monitors, Inc. is an industry-leading product design and manufacturing firm based in Mt. Crawford, Virginia. Founded in 1987, PMI set out with the goal to solve power quality problems by listening to our customers and working with them to design and manufacture products to suit their needs. Total customer satisfaction is our goal: we offer 24/7 technical support and extensive educational material.

iOS

Manage PQ Recorders in the Field with your iOS Device

- Initialize a recorder directly from your iOS device
- Use live vector diagrams and RMS readings to ensure correct phasing and circuit type while on site

Real-time and Recorded Data from Your PMI Power Quality Devices

- View live waveforms, vector diagrams, harmonic bar charts, tabular meter data and more wirelessly using WiFi for real-time insight into PQ problems
- Download active recordings to your iOS device and perform on-site investigations by analyzing stripcharts, waveform captures, triggered events and more
- PMIView becomes your hand-held front panel interface for your PMI Power Quality Device

Seamless Integration with PQ Canvass

- With PMIView, users can quickly and easily upload all locally stored data to PQ Canvass for a more in-depth analysis
- Use PMIView to geolocate your PMI PQ recorder using your iOS GPS location at install time