

Power Quality Studies & Solutions



Evaluation of power quality issues will allow us to provide solution recommendations for the best performance possible from your existing power system.

Our engineering technicians will help you understand your unique facility power system:

- ➔ What is the physical condition of the system?
- ➔ How is the system supposed to operate?
- ➔ What is the best solution to obtain optimum performance from the existing system?
- ➔ What power system equipment upgrades are now available?

P3 Value Proposition

✓	Save power quality analysis time
✓	Quickly identify the cause of power quality events
✓	Demonstrate quality improvement over time: proof of ROI for Capex
✓	Increase revenue: guarantee power quality to customers
✓	Show compliance with power quality standards

Call to get a **FREE** quote for a Power Quality Study.



Power Protection Products, Inc.

For information about power quality solutions contact us at:

877-393-1223
www.p3-inc.com

The Power Quality Big 8



- ✓ **Transients**
- ✓ **Noise**
- ✓ **Sags**
- ✓ **Swells**
- ✓ **Under-voltages**
- ✓ **Over-voltages**
- ✓ **Harmonics**
- ✓ **Grounding**

Providing an educational environment for hands-on training, testing, & evaluation of today's power quality solutions & equipment.

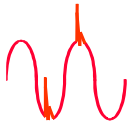
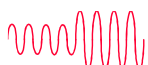
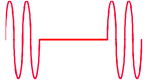
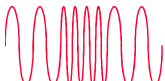
The Power Quality BIG 8

What is "Good" Power?

Clean, pure power exhibits constant voltage & frequency, perfect sinusoidal waveshapes, & is free of harmonics, noise, & transients.

What is "Bad" Power?

Power that includes voltage variations, swells, sags, overvoltages & undervoltages, harmonics, transients, traveling waves & power failures.

 Power Protection Products, Inc. POWER SOLUTION POWER PROBLEM			POWER CONDITIONING TECHNOLOGY									
			SURGE PROTECTION DEVICE	POWER LINE CONDITIONERS (FERRORESONANT)	VOLTAGE REGULATOR (ELECTRONIC)	HARMONIC CANCELLATION TRANSFORMERS	NOISE FILTERS	UPS SYSTEM			STANDBY ENGINE GENERATOR	SAG RIDE THROUGH EQUIPMENT
								LOW - END STANDBY	MID RANGE LINE INTERACTIVE	HIGH - END		
	TRANSIENTS	COMMON MODE	Y	N	?	N	N	N	N	Y	N	?
		NORMAL MODE	Y	N	?	N	N	N	N	Y	N	?
	NOISE	COMMON MODE	Y	Y	?	Y	?	N	N	Y	N	Y
		NORMAL MODE	Y	Y	?	N	?	N	N	Y	N	Y
	NOTCHES		N	Y	N	?	N	N	N	Y	N	Y
	VOLTAGE DISTORTION		N	?	N	N	N	N	N	Y	N	Y
	SAG		N	?	?	N	N	N	N	Y	N	Y
	SWELL		N	?	?	N	N	N	N	Y	N	Y
	UNDERVOLTAGE		N	Y	Y	N	N	N	N	Y	Y	Y
	OVERVOLTAGE		N	Y	Y	N	N	N	N	Y	Y	Y
	MOMENTARY INTERRUPTION		N	N	N	N	N	Y	Y	Y	N	Y
	LONG-TERM INTERRUPTION		N	N	N	N	N	N	N	N	Y	N
	FREQUENCY VARIATION		N	N	N	N	N	N	N	Y	?	Y



IT IS REASONABLE TO EXPECT THAT THE INDICATED CONDITION WILL BE CORRECTED BY THE INDICATED POWER CONDITIONING TECHNOLOGY.



WILL NOT SOLVE CONDITION.



MAY OR MAY NOT SOLVE CONDITION.