



Power Quality Solutions for Philippine Industries: Addressing the Challenges of a Growing Economy



The Philippines' booming economy demands a reliable and stable power supply to fuel its growth. **QShield** solutions offer a comprehensive approach to power quality, safeguarding Philippine industries from disruptions and ensuring uninterrupted operations, allowing businesses to thrive in a dynamic and competitive market.



WHITEPAPER

Introduction

The Philippines is experiencing robust economic growth, with a surge in industrial activity driving demand for reliable and stable power. However, this growth is accompanied by a critical challenge: power quality issues. Voltage fluctuations, harmonic distortions, and power outages are common occurrences, impacting industrial productivity, equipment lifespan, and ultimately, economic competitiveness. This whitepaper examines the pervasive impact of power quality problems on Philippine industries and explores how Infinix's QShield solutions can deliver reliable power quality, enabling businesses to thrive in a dynamic and demanding environment.

The Impact of Poor Power Quality on Philippine Industries

- **Production Disruptions & Downtime:** Voltage fluctuations can cause machinery to malfunction, leading to production stoppages and costly downtime. This can negatively affect production targets, lead to lost revenue, and disrupt supply chains.
- **Equipment Damage & Reduced Lifespan:** Harmonic distortions can overload equipment, leading to premature failure and increased maintenance costs. This can significantly reduce the lifespan of expensive machinery and create unexpected budget strains.
- **Product Quality Issues:** Inconsistent power supply can lead to variations in product quality, increasing rejection rates and damaging brand reputation. This is especially crucial in industries with stringent quality control requirements.
- **Increased Energy Consumption:** Power quality problems can force equipment to operate inefficiently, leading to higher energy consumption and unnecessary expenses. This adds to the burden of rising energy costs and hinders efforts to achieve sustainability goals.

Infinix's QShield: A Solution for Reliable Power Quality

Infinix offers a comprehensive suite of power quality solutions through its QShield product line. These solutions are designed to address the specific power quality challenges faced by Philippine industries, providing the following benefits:

- **Voltage Regulation & Stabilization:** QShield's advanced static var generators (SVGs) provide real-time voltage regulation, minimizing fluctuations and ensuring stable power delivery to sensitive equipment.
- **Harmonic Filtering:** QShield effectively filters out harmonic distortions, protecting equipment from damage and ensuring smooth, clean power. This extends equipment lifespan, minimizes downtime, and improves overall efficiency.



- **Unbalance Correction:** QShield addresses phase imbalances, ensuring a balanced power supply to all equipment. This reduces stress on equipment and improves overall system performance.
- **Wireless Control & QLens Integration:** QShield offers wireless control and integration with Infinix's QLens energy management software, allowing for remote monitoring, data analysis, and proactive troubleshooting. This enables businesses to optimize power quality, minimize downtime, and make informed decisions based on real-time data.

QShield's Customization Options:

Infinix's QShield solutions are available in three configurations - Core, Plus, and Pro - to cater to the specific needs of various industries:

- **Core:** Provides essential power quality features like voltage regulation, harmonic filtering, and unbalance correction with wireless control and QLens integration.
- **Plus:** Includes all Core features, enhanced with environmental monitoring capabilities like humidity, temperature, particle count, VOC, NOx, and CO2 monitoring, as well as low and high-frequency vibration detection.
- **Pro:** Offers all the features of Plus, but with added AI-powered self-optimization and predictive maintenance features, maximizing system efficiency and minimizing downtime.

Infinix's Commitment to Philippine Industries

Infinix is committed to delivering reliable power quality solutions that empower Philippine businesses to thrive. QShield's advanced technology, combined with its customizable features and integration capabilities, provides a comprehensive solution to address the power quality challenges faced by the growing Philippine economy. By investing in QShield, businesses can:

- **Increase productivity:** Reduce downtime, ensure efficient operation, and achieve production targets.
- **Protect equipment & extend lifespan:** Minimize equipment damage and extend its operational life, reducing maintenance costs and unplanned expenses.
- **Enhance product quality:** Ensure consistent power supply for optimal product quality and reduced rejection rates.
- **Achieve energy efficiency:** Optimize energy use and reduce energy consumption, lowering operational costs and contributing to sustainability goals.



Unlocking Philippine Industry's Full Potential

Reliable power quality is essential for the success of Philippine industries. As the economy continues to grow, the demand for stable and clean power will only increase. **Infinix's QShield** solutions offer a comprehensive solution to address these challenges, ensuring a robust power supply that drives growth, improves efficiency, and strengthens the competitiveness of Philippine businesses in the global market.





For more information, visit Infinix's website or contact our sales team at info@infinixenergy.com.