UNITI®

WhitePaper

Uniti Power Symphony UPS Range

Uninterrupted Power for Mission-Critical Systems



1. Executive Summary

In today's digitally dependent landscape, reliable and uninterrupted power supply is paramount. Power disruptions not only affect business operations, but can lead to data loss, hardware damage, and critical downtime. The Uniti Power Symphony UPS range offers robust, scalable, and future-proof solutions to mitigate these risks.

Featuring models ranging from 1.5kVA to 10kVA, the Symphony UPS series delivers pure sine wave output, true online double conversion, and advanced cloud connectivity options for real-time monitoring and control. This white paper outlines the technical specifications, advantages, and applications of the Uniti Power Symphony UPS range and demonstrates how it empowers businesses to maintain operational continuity.

2. Introduction to UPS Technology

2.1 The Need for Uninterrupted Power

Businesses today rely on continuous uptime for critical applications, from data centres to healthcare facilities and financial services. Power outages, brownouts, and surges can disrupt operations, causing significant financial losses, data corruption, and hardware damage. The impact of even a brief power outage can cascade across operations, leading to inefficiencies and potential regulatory violations in sectors like healthcare and finance.

2.2 The Uniti Power Symphony Solution

Uniti Power's Symphony UPS range provides a comprehensive and scalable solution designed to protect businesses from power disruptions. The Symphony UPS models, ranging from **1.5kVA** to **10kVA**, combine cutting-edge online double conversion technology with future-proof connectivity options, ensuring seamless integration into any business infrastructure. The Symphony UPS series is engineered to deliver continuous, clean power with high efficiency, safeguarding your critical systems and data.

3. Key Features of the Uniti Power Symphony UPS Range

3.1 Advanced Online Double Conversion Technology

The Symphony UPS series uses true online double conversion, ensuring that the power

delivered to connected equipment is clean, stable, and free from any disruptions. This technology not only protects against power outages but also filters out noise, spikes, and fluctuations in the electrical supply. This makes the Symphony UPS ideal for sensitive equipment, such as servers, medical devices, and telecommunications infrastructure.

3.2 Unity Power Factor and High Efficiency

Each model in the Symphony range operates with a **unity power factor (1.0)**, meaning that it provides 100% of its capacity to connected equipment. Additionally, these units deliver up to **98% efficiency** in **ECO mode** and **95% efficiency** in standard operation, ensuring energy savings and reduced operational costs.

3.3 Seamless Cloud Integration and IoT Monitoring

Designed for modern business environments, the Symphony UPS range supports IoT-based real-time monitoring via **Winpower software**. This feature allows users to monitor, control, and automate the management of their UPS systems remotely via cloud integration. Whether on-site or off-premises, the intuitive dashboard provides real-time data, including power consumption, battery status, and environmental conditions.

3.4 Scalability with Parallel Operation and Hot-Swappable Batteries

The Symphony UPS series supports **parallel operation** in larger systems, allowing up to three units to be combined for increased capacity or redundancy in critical applications. Additionally, **hot-swappable battery modules** ensure that maintenance can be performed without powering down the connected equipment. This minimises downtime and ensures constant protection.

3.5 Compact and Flexible Design

Each UPS model is designed to fit in a standard 19" rack or cabinet, occupying either 2U or 5U depending on the capacity. For installations requiring alternative setups, the units can also be floor-standing, offering flexibility for diverse environments such as data centres, server rooms, or spaces with limited rack availability.

3.6 Industry-Leading 6-Year Warranty

The Uniti Power Symphony UPS range is backed by an **unrivalled 6-year warranty** for the electronic components, a testament to its reliability and high-quality manufacturing. This extensive warranty, covering products sold within the UK, ensures peace of mind for customers by offering protection against defects in material and workmanship. The **internal batteries and accessories**, such as external battery modules and connectivity devices, are covered by a **2-year warranty**.

This industry-leading warranty highlights Uniti Power's confidence in the longevity and performance of their UPS systems. Should a defect arise, Uniti Power will, at their discretion, repair or replace the defective unit or parts, ensuring minimal downtime and operational impact.

Warranty Coverage Overview:

- **6 years** for electronic components in the UPS
- **2 years** for batteries and accessories
- Applies to products sold in the UK, with limited coverage for international customers

Support and Maintenance

Customers also have the option to purchase maintenance plans, which include regular

inspections and servicing to ensure the continued optimal performance of their UPS systems. This proactive approach minimises the risk of unexpected failures and extends the lifespan of the equipment. In the event of a malfunction, Uniti Power offers prompt repair services with a commitment to resolve any issues within **5 working days** of receiving the unit.

4. Product Range Overview

4.1 Uniti Power Symphony SPY1500RMi2U

- **Capacity**: 1500VA/1500W
- **Efficiency**: 89% in double conversion, 97% in ECO mode
- **Backup time**: 2.4 minutes at full load, 8.7 minutes at 50% load
- **Best for**: Small businesses, network closets, and telecom cabinets.

4.2 Uniti Power Symphony SPY3000RMi2U

- **Capacity**: 3000VA/3000W
- **Efficiency**: 93% in double conversion, 97% in ECO mode
- **Backup time**: 2.5 minutes at full load, 9.3 minutes at 50% load
- Best for: Medium-sized businesses, small data centres.

4.3 Uniti Power Symphony SPY6KiRTB

- **Capacity**: 6000VA/6000W
- **Efficiency**: 95% in double conversion, 98% in ECO mode

Parallel operation: Optional, up to 3 units for capacity or redundancy

- **Best for**: Mission-critical applications such as healthcare and telecommunications.

4.4 Uniti Power Symphony SPY10KiRTB

- **Capacity**: 10000VA/10000W
- **Efficiency**: 95% in double conversion, 98% in ECO mode
- **Backup time**: 2.1 minutes at full load, 8 minutes at 50% load
- **Best for**: Larger critical applications, and industrial facilities.



1.5kVA & 3kVA Models



6kVA & 10kVA Models

5. Accessories and External Battery Modules

5.1 External Battery Modules

For applications requiring extended runtime, the Uniti Power Symphony series offers **external battery modules (EBMs)**. These are compatible with all models and can be scaled up to provide hours of backup during prolonged outages.

- **EBM Options**: 36V, 72V, 240V models, with up to 6 external modules for extended backup.

5.2 Connectivity Accessories

- **SPYNMC**: Network Management Card for remote UPS monitoring over the web
- **SPYREL**: Parallel operation controller for up to three UPS units
- **SPYEMP**: Temperature and humidity sensor for environmental monitoring.

6. Applications and Use Cases

6.1 Data Centres and Server Rooms

Data centres require uninterrupted power to protect against downtime that could result in data loss or hardware damage. The Symphony 6kVA and 10kVA models are ideal for this environment, offering scalable power protection and real-time monitoring.

6.2 Healthcare Facilities

Medical devices and equipment depend on clean, stable power. The Symphony UPS series, with its double conversion technology, ensures continuous power even during utility outages, protecting life-saving equipment.

6.3 Telecommunications

In the telecommunications sector, even a momentary loss of power can disrupt service. The Symphony 1.5kVA and 3kVA models offer a compact solution that fits into existing network racks, providing continuous power to communication equipment.

7. Conclusion

The Uniti Power Symphony UPS range represents a powerful, flexible, and scalable solution for businesses requiring robust power protection. With its high efficiency, real-time cloud monitoring, and seamless integration with existing infrastructures, the Symphony UPS series provides peace of mind for businesses and institutions that cannot afford downtime. Whether you need a solution for a small office, a data centre, or a healthcare facility, the Symphony range has a model to suit your needs.

Uniti Power
21 Orgreave Place, Sheffield,
South Yorkshire, S13 9LU, Uniti Kingdom

Tel: 0845 561 0560

Email: info@unitipower.com