



BlueShield™ Series

WIMES 3.07 Compliant UPS Solutions for Critical Infrastructure

Power Range: 5 kVA – 100 kVA | IP54 Enclosure

System Overview

The BlueShield™ Series from DEWEN® delivers intelligent, rugged, and scalable uninterruptible power solutions tailored for the water and wastewater sector.

Built for harsh, high-dependency environments, BlueShield ensures seamless power continuity across pumping stations, chemical dosing systems, filtration plants, and SCADA infrastructure.

From compact low-power cabinets to industrial-grade high-capacity configurations, the BlueShield range is trusted across multiple utilities to meet stringent WIMES 3.07 standards and deliver long-term resilience in mission-critical operations.

Key Features & Highlights

- True Online Double-Conversion Topology
- IP54-Rated Enclosure for harsh environments
- Runtime configurable up to 120 minutes (battery dependent)
- Battery Compatibility: VRLA, NiCd, Lithium-Ion supported
- Optional Integrated Air Conditioning
- Remote Management: Modbus, SNMP, RS485, dry contacts
- Parallel Redundancy & Load Expansion Supported
- IoT-Ready Monitoring (for systems ≤60 kVA)
- High Efficiency: Up to 96% (online); up to 98% (eco mode)

Safety & Compliance

- WIMES 3.07 Compliant
- CE Marked
- BS EN 62040-1/2/3 Certified
- BS EN 60529 (IP54)
- Temperature: -20°C to +50°C, up to 95% RH
- Backfeed Detection

Applications & Use Cases

Designed specifically for:

- **Water & Wastewater Plants** – pumping, filtration, and control systems
- **Desalination & Chemical Dosing** setups
- **Remote / Outdoor Installations** in harsh environments
- **Telecommunication / SCADA** control panels



Communications & Monitoring

- **Protocols Supported:** RS485, Modbus TCP/IP, SNMP
- **Remote Monitoring:** Web-based dashboard and mobile-ready alerts
- **Dry Contacts:** Volt-free relay outputs for alarm/event signaling
- **IoT Integration:** Cloud compatibility (Azure, AWS, Google Cloud) – available in systems ≤60 kVA
- **Centralized Control:** Supports parallel system health/status aggregation

Electrical Performance

- **Topology:** Online double-conversion – clean, uninterrupted power
- **Power Range: 5 kVA to 100 kVA, stationable in parallel for redundancy**
- **Runtime:** Up to 120 minutes at full load
- **Battery Types:** Supports VRLA, Li-Ion & NiCd (for long-life, low maintenance)

Environmental & Design Specifications

- **Enclosure:** IP54-rated steel housing – resistant to dust, water spray, humidity, and corrosive atmospheres
- **Operating Conditions:** -20°C to +50°C, up to 95% non-condensing humidity
- **Cooling Options:**
 - **Forced-air (standard):** high-reliability front to-rear airflow
 - **Optional air-conditioning:** for enclosed cabinets or extreme ambient temperatures



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Technical Specifications

Parameter	Specification
Power Range	5 – 100 kVA
Input Voltage	110–300 V AC (1ph) / 305–520 V AC (3ph)
Output Voltage	230 V AC ±1% (single/three phase)
Output Frequency	50/60 Hz
Efficiency	Up to 96% (online); up to 98% (eco mode)(1)
Power Factor	≥ 0.99
Battery Support	VRLA, NiCd, Lithium-Ion
Runtime	Up to 120 minutes at full load
Cooling	Forced-air (standard); optional integrated air-conditioning
Interfaces	SNMP, Modbus TCP/IP, RS232, RS485, volt-free contacts, IoT(1)
Mounting	Wall-mounted, floor-standing, or 19" rack
Protection	OV/UV, short-circuit, overload, over-temp, reverse polarity, backfeed(2)
Enclosure Protection	IP54 (BS EN 60529)
Certifications	WIMES 3.07, CE, BS EN 62040-1/2/3, BS EN 61439

System ratings, enclosure protection (IP), and configurations can be engineered to meet specific water and wastewater infrastructure requirements.

- (1) for ratings up to 60KVA
- (2) for ratings beyond 60KVA

Contact Our Team

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Assembled in the UK | OEM-Grade Quality | 20+ Years of Industry Experience

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