



EdgePower™ Series

1–20 kVA Standard | High-Capacity Outdoor
Options up to 60 kVA

**Rugged Outdoor UPS Cabinets for Telecom,
Traffic, and Edge Infrastructure**

System Overview

The DEWEN® EdgePower™ Series delivers a fully integrated outdoor UPS cabinet engineered for telecom, traffic, CCTV, and edge IT applications.

With IP55-rated enclosures (IP65 optional), built-in UPS, breaker protection, and flexible battery space, EdgePower ensures reliable continuity in harsh, remote, or urban roadside environments.

Key Features & Highlights

- **High efficiency** – up to 96% with wide AC input tolerance
- **IP55 protection** – other IP ratings provided on request (IEC/EN 60529 tested)
- **Thermal management** – AC, heat exchanger, heating controller options
- **Shared battery system** – optimized runtime with reduced footprint
- **Battery flexibility** – VRLA (standard) or Lithium-ion (optional)
- **Hot-swappable design** – modular, scalable, easy maintenance
- **Smart monitoring** – IoT ready monitoring/RS485/Modbus, optional Ethernet/SNMP
- **Cabinet security** – anti-theft lock, vandal-resistant hinges, smoke detection

Applications & Use Cases

- Telecom base stations and outdoor RAN cabinets
- Traffic light & ITS roadside cabinets
- CCTV & surveillance systems
- Edge data & networking nodes
- Remote utility & substation control

Safety & Compliance

- CE, TUV, RoHS compliant
- **IEC/EN 62040-1/2/3**
- **IEC 62443** – Cybersecurity aligned for IoT/remote management
- Ingress Protection: **EN 60529**
- **IEC/EN 62040-5-3** outdoor environments (design aligned)
- Aligned with **ITU-T**

Why EdgePower™ Wins

- ✓ **Rugged IP55 cabinet**, not IP20 indoor UPS
- ✓ **Integrated UPS + thermal + batteries** = one solution
- ✓ **Optimized for telecom, traffic, and edge sites**
- ✓ **Future-proof** with Li-ion & IoT-ready control



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Telecom, Traffic, and Critical Edge Infrastructure**



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Technical Specifications

Parameter	Specification
Capacity Range	1–20 kVA (standard) / up to 60 kVA (high-capacity outdoor)
UPS Topology	Online double conversion
Efficiency	Up to 96%; ECO mode up to 98%+
Input Voltage	220/230/240 VAC (1φ); 380/400/415 VAC (3φ)
Input Voltage Range	100–300 VAC (1φ) / 173–520 VAC (3φ)
Frequency Range	40–70 Hz (auto-sensing)
Input Power Factor	≥0.99
Output Power Factor	1
Output THDv	<1% (linear), <5% (non-linear)
Crest Factor	3:1
Overload Capability	110% for several minutes; 125–150% for short durations
Monitoring & IoT	LCD, RS485/Modbus; optional Ethernet/SNMP; IoT-ready; cybersecurity aligned with IEC 62443
Operating Temperature	–20 °C to +55 °C (with heating/AC options)
Relative Humidity	5–95%, non-condensing
Altitude	0–2000 m (derating above 1000 m)
Compliance	IEC/EN 62040-1/2/3 (Certified), IEC/EN 60529 (Certified), IEC 62443 (Certified), IEC/EN 62040-5-3 (Design aligned), CE, TUV, RoHS

Cabinet ratings, IP protection levels, and system configurations can be adapted to suit outdoor and remote installation requirements.

Contact Our Team

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DEWEN® EdgePower™ Series | Rugged Outdoor UPS with Integrated Enclosure

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