



# TITRON™ Industrial UPS Series (5–300 kVA)

True Industrial Online Double-Conversion UPS  
Engineered for Oil & Gas • Substations •  
Utilities • Heavy Industry

## Overview

The TITRON™ Series from DEWEN® is an industrial-grade online UPS platform designed for critical environments such as oil & gas installations, substations, process plants and industrial automation.

Using a single integrated power electronics module (rectifier, inverter, static bypass and control electronics inside one industrial assembly), TITRON delivers long-term reliability, simplified maintenance and high electrical immunity.

Available from 5 kVA to 300 kVA in multiple enclosure protection levels (IP20, IP42, IP55), TITRON provides secure power in harsh conditions with strong short-circuit performance, galvanic isolation and high availability.



## Key Features

- **True Online Double-Conversion with Galvanic Isolation**
- **Industrial DC Bus Flexibility** – supports multiple DC voltage configurations
- **Integrated Power Electronics Module** – rectifier, inverter, static bypass and controls in one assembly
- **Segregated Internal Layout** – separate sections for power electronics, transformer and output filter capacitors
- **Advanced Communications** – Ethernet, Modbus, RS232/RS485, SNMP and dry contacts
- **7” Touch-Screen HMI** – real-time measurements, alarms, event history, multilingual interface
- **Battery Compatibility** – VRLA, NiCd and Lithium-Ion battery systems
- **Harsh-Environment Design** – indoor and outdoor versions with optional integrated cooling
- **Industrial Protection Features** – overload, short-circuit, thermal protection and backfeed prevention
- **Flexible Installation** – indoor or outdoor cabinets, optional external bypass/feeder cabinet

## Monitoring & Control

- 7” industrial colour touch-screen
- Real-time monitoring of all UPS stages
- Event and alarm history
- Multi-language support
- Modbus TCP/IP, Modbus RTU, SNMP, RS485, RS232
- Programmable dry-contact I/O
- Optional remote monitoring and supervisory interface

## Applications & Use Cases

- Oil & Gas (onshore/offshore) – control systems, ESD, critical automation
- Power generation, substations, T&D networks
- Petrochemical and process industries
- SCADA, RTU, DCS and industrial communication systems
- Manufacturing and continuous-process industrial plants
- Critical infrastructure and control rooms



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## Technical Specifications

Parameter	Specification
Power Range	5 – 300 kVA
Input Voltage	220 V (single-phase) or 380/400/415 V (three-phase), other voltage on request
Power Factor	≥ 0.99
Rectifier Type	Thyristor controlled (6-pulse or 12-pulse)
Inverter Type	IGBT SPWM full-bridge
Efficiency	Up to 96% (online), up to 98% (eco mode)
Overload Capability	125% for 10 minutes; 150% for 1 minute

## Options

- External maintenance bypass / feeder cabinet
- Higher-pulse rectifier (12-pulse)
- Custom enclosure and RAL colour options
- Parallel redundant configuration (N+1)
- Extended battery autonomy systems
- Lithium-Ion or NiCd battery systems
- Harsh-environment enhancements

## CERTIFICATIONS & COMPLIANCE

- **ISO 9001:2008** – Quality Management
- **ISO 14001:2004** – Environmental Management
- **BS OHSAS 18001:2007** – Occupational Health & Safety
- **IEC / EN 62040-1** – Safety
- **IEC / EN 62040-2** – EMC
- **IEC / EN 62040-4** – Environmental Performance
- **IEC / EN 62040-3 (VFI-SS-111)** – Double Conversion Performance Classification
- **IEC 60529** – Degrees of Protection
- **CE Marking**

## Contact Our Team

✉ Email: [info@dewenenergy.com](mailto:info@dewenenergy.com)

🌐 Web: [www.dewenenergy.com](http://www.dewenenergy.com)

**TITRON™ Series – Industrial Online UPS Systems 10–300 kVA | IP20 / IP42 / IP55**

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