

Reliable and Efficient power for your Critical Applications

Falcon X7

UPS 160 to 800kVA






Scalable upto 6.4 MVA

The demand for dependable Three Phase UPS solutions, such as Falcon X7, is increasing as manufacturing, material handling, and other sectors seek enhanced reliability and efficiency. Falcon X7 addresses this market need by offering a practical and efficient power solution. Businesses are increasingly recognizing the value of reducing downtime and improving performance, making Falcon X7 a sought-after choice to meet growing market demand.

Falcon X7 is a robust solution designed to enhance manufacturing and material handling operations, prioritizing reliability and efficiency. It empowers businesses to overcome challenges and achieve higher performance levels. With compatibility for various battery technologies and the ability to handle voltage fluctuations seamlessly, Falcon X7 proves its reliability across industries such as manufacturing, material handling, pharmaceuticals, packaging, textiles, and automotive.



Key USP's

-  Advance 3-Level T shape Inverter for efficient and reliable design.
-  Most compact footprint in its class with the multiple power configurations.
-  Efficient and sustainable design delivers up-to 96.5% efficiency for optimized TCO.
-  Flexible input and output performance for desired operation and performance.
-  Scalable up-to 6.4MVA with multiple possible design configurations.

Key Features

- 3rd Level Inverter:** Cutting-edge technology for superior performance.
- Efficiency Ramp Up:** Regulation based on load, active redundancy planning, and rapid module wake-up.
- Unthinkable Scalability:** Wide solution basket, pay-as-you-grow options, and seamless integration.
- Electrical Discrimination:** No discrimination in power distribution, better-defined short-circuit handling.
- Ease of Management:** Built-in LCD HMI, multiple monitoring options, and complete status insights.

Applications

Falcon X7, with its adaptability and advanced features, serves as a robust choice across the industries listed below, empowering businesses to achieve unparalleled efficiency and reliability.

Manufacturing | Material Handling | Pharmaceuticals | Packaging | Textile | Automotive

Our Awards & Recognition

| | | |
|---|---|---|
|  |  |  |
| Frost & Sullivan Best Practices 2022 | SD Awards 2022 & 2023 No. 1 Online UPS Manufacturing Company in India | Fuji Electric Awarded Prestigious India Design Mark |

Global Standards

| | | | | | | | |
|---|--|---|---|---|---|---|---|
|  |  |  |  |  |  |  |  |
| Noise ISO 3746 | Quality ISO 9001:2008 IEC 62040-2 Category C3 IEC 60529 | EMC/EMI IEC 62040-2 Category C3 IEC 60529 | IP IEC 60529 | EMS ISO 14001:2004 OHSAS 18001:2007 | OHSAS OHSAS 18001:2007 | Performance IEC 62040-3 | Safety IEC 62040-1 |

Technical Specification

Falcon X7

160 to 800kVA

| Rated power (kVA) | 160 | 200 | 250 | 300 | 400 | 500 | 600 | 800 |
|---|--|-----|-----|-----|-----|-----|-----|-----|
| Input Characteristics | | | | | | | | |
| Rated Voltage | 380-400-415 Vac 3-Ph + N + E | | | | | | | |
| Rated Voltage Tolerance | ±20% @ 400 Vac | | | | | | | |
| Input PF | >0.99 on >25% load onwards | | | | | | | |
| Rated Frequency | 50-60 Hz ±10% | | | | | | | |
| Phase Sequence Correction | Yes By Default | | | | | | | |
| Current Harmonic Distortion (THDi)** | <3% | | | | | | | |
| Rectifier Type | IGBT Base Front End Active Rectifier | | | | | | | |
| Bypass Parameters | | | | | | | | |
| Rated Voltage | 380-400-415 Vac 3-Ph + N + E | | | | | | | |
| Rated Frequency | 50-60 Hz | | | | | | | |
| Connection | Standard Dual Feed | | | | | | | |
| Bypass Overload | 125% Continuous | | | | | | | |
| Output Parameters | | | | | | | | |
| Rated Voltage | 380-400-415 Vac 3-Ph + N + E | | | | | | | |
| Inverter Type | Advance T-Type NPC 3-Level IGBT Base Inverter High Efficiency Transformer Less | | | | | | | |
| Rated Frequency | 50-60 Hz | | | | | | | |
| Output Power Factor | Unity or 0.9 PF | | | | | | | |
| Voltage Variation - Static Load | ±1% | | | | | | | |
| Crest Factor | 3:1 | | | | | | | |
| Voltage Distortion (THDv) | < 2% @ Linear Load <3% @ Non Linear Load | | | | | | | |
| Output Frequency Stability | ±2% (Settable from ±1% to ±6%) | | | | | | | |
| Output Phase Angle | 120 ± 1deg. | | | | | | | |
| Overload Capacity | 110% for 1 Hour 125% for 10 Mins 150% for 1 Min | | | | | | | |
| Load Power Factor | 0.5 Lag to 0.7 Lead without derating | | | | | | | |
| Efficiency | Upto 96.5% | | | | | | | |
| Bypass Parameters | | | | | | | | |
| Number of Battery (12V) Blocks | 40 Nos (Selectable from 38 to 48 Batteries) | | | | | | | |
| Nominal Battery Voltage | 480Vdc (Selectable from 456-576Vdc) | | | | | | | |
| Compatibility | SMF, Tubular, Ni-Cd, Li-Ion Battery | | | | | | | |
| Environmental Parameters | | | | | | | | |
| Operating Temperature | 0 to 40°C (at Rated Input and Load) | | | | | | | |
| Ingress Protection | IP20 | | | | | | | |
| Range of Relative Humidity | upto 95% max (without Condensing) | | | | | | | |
| Maximum Operating Altitude | Up to 1000 Meter without derating | | | | | | | |
| Storage Temperature | 0°C up to 60°C | | | | | | | |
| Acoustic Noise at 1m from Panel Front (Ref ISO3746) | < 68 dBA | | | | | | | |
| Communication and management | | | | | | | | |
| Display | 128x64 LCD Graphic Display with LED Mimic (Optional Touch Screen Display) | | | | | | | |
| Communication Interface (Options) | Simple Network Management Protocol (SNMP), MODBUS-RTU , Dry Contacts | | | | | | | |
| Regulatory | | | | | | | | |
| Safety | IEC62040 - 1 | | | | | | | |
| EMC/EMI/RFI | IEC62040 - 2 | | | | | | | |
| Performance | IEC62040 - 3 | | | | | | | |

**THDv @ <1%
Specification are subject to change without notice

Global Accreditation
and Certification



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Website



Service Support