

# Uninterrupted and Reliable Power for IT & ITES

## Falcon X5






60-300 kVA Scalable upto 2.4 MVA

The Falcon X5 Series, with a power range of 60-300 kVA and a 3x3 configuration, is the robust three-phase UPS solution for dependable power in industrial settings. It offers cost-effective and efficient power protection with features like adaptive walk-ins, rectifier delay start, and compatibility with various industrial loads.

With over a century of design expertise in the power and semiconductor field, Fuji Electric has crafted the Falcon X Series to address industry challenges effectively. It boasts a versatile configuration and an eco-friendly design, ensuring maximum efficiency, low Total Cost of Ownership (TCO), and system reliability. Choose the Falcon X Series for sustainable and efficient industrial operations.



### Key USP's

-  Advance 3 level Inverter delivers unmatched efficiency with full rated power.
-  Compact footprint with Multiple power configurations.
-  Certified >95% online efficiency for optimized TCO and peace of mind.
-  Designed to meet the highest standards and performance.
-  Accepts 3-phase 3-wire input with configurable power walk-in.

### Applications

Tailored for mission-critical operations in various industries, the Falcon X5 Series adapts seamlessly to diverse critical operations, offering dependable power protection and performance. Ideal for critical operations in:

**Engineering | Automotive | Electronics | Process | Food & Beverage | Textile | Infrastructure | Data Centers**

### Key Features

**Advanced 3rd Level Inverter:** Cutting-edge technology for optimal performance.

**Robust Design:** High short-circuit handling and compatibility with Lithium-ion batteries.

**Redundancy:** No single point of failure, ensuring uninterrupted power.

**Efficient & Reliable:** Certified >95% online efficiency for peace of mind.

**Wide Input Compatibility:** Accepts 3-phase 3-wire input with configurable power walk-in.

### 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



## Technical Specification

### Falcon X5

#### 60-300 kVA Scalable upto 2.4 MVA (3x3)

Rated power (kVA)	60	80	100	120	160	200	250	300	
Rated power (kW)	54	72	90	108	144	180	225	270	
<b>Input Parameters</b>									
Rated Voltage	400/415 V <sub>ac</sub> , (380 V <sub>ac</sub> Optional), (3Ø+PE)								
Rated Voltage Tolerance*	+20%, -40%* @ 400V								
Rated Frequency	50/60 Hz ±10%								
Current Harmonic Distortion (THDi)**	<3% at 100% Load								
<b>Bypass Parameters</b>									
Rated Voltage	400/415 V ±10% (5-15% Selectable) 3-Phase + N + PE (380V Optional)								
Rated Frequency	50/60 Hz								
Connection	Separate From Mains Input								
<b>Output Parameters</b>									
Rated Voltage	400 V, 3-Phase + N + PE (380/415 V Selectable)								
Rated Frequency	50 or 60 Hz (Configurable)								
Output Power Factor	0.9 PF								
Voltage Variation - Static Load	±1%								
Crest Factor	3:1								
Voltage Distortion at Linear Load	≤ 2% (Typical)								
Voltage Distortion at Non-Linear Load	≤ 3% (as per IEC62040-3)								
Frequency Stability with Inverter Synchronized to the By-Pass Mains	±2% (Configurable from ±1% to ±6%)								
Voltage Phase Shift with Balanced and Unbalanced Load	120 ± 1deg.								
Overload Capacity	110% for 60 Mins, 125% for 10 Mins, 150% for 1 Min								
Load Power Factor	0.7 Leading to 0.5 Lagging without De-rating								
Efficiency	Up to 99% in Eco Mode and Upto 95% in Online Mode								
Isolation Transformer	Inbuilt								
<b>Battery Parameters</b>									
Number of Battery (12V) Blocks	40 Nos (Configurable from 38 to 48 Batteries)								
Nominal Battery Voltage	480Vdc (Configurable from 456-576Vdc)								
Compatibility	Compatible with SMF, Tubular, Ni-Cd, Li-Ion Battery								
<b>Environmental</b>									
Ambient Temperature for the UPS	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 above MSL								
Storage Temperature	From 0°C up to 60°C (UPS), 0 to +40°C (for battery)								
Acoustic Noise at 1m from Panel Front (Ref ISO3746)	< 68 dBA								
<b>Communication and management</b>									
Display	128x64 LCD Graphic Display with LED Mimic								
Communication Interface (Options)	Simple Network Management Protocol (SNMP), MODBUS-RTU , Dry Contacts								
<b>Dimension and weights</b>									
UPS (H X W X D) mm	1700 x 800 x 900			1800 x 840 x 900		2090 x 1000 x 1000		2090 x 1200 x 1000	
Weight in Kg( UPS)	800	900	1000	1050	1280	1350	1680	1750	
<b>Regulatory</b>									
Safety	IEC62040 - 1								

Global Accreditation and Certification



## Fuji Electric India Pvt. Ltd.

(CIN:U31900TN1985PTCO11866)

119, 120, 120A, Electrical and Electronics Industrial Estate,  
Perungudi, Chennai - 600 096, Tamil Nadu, India

+91 78100 09955

enquiry.fe@fujielectric.com | info-fei@fujielectric.com

www.india.fujielectric.com



Website



Service Support