Fuji Electric

Innovating Energy Technology

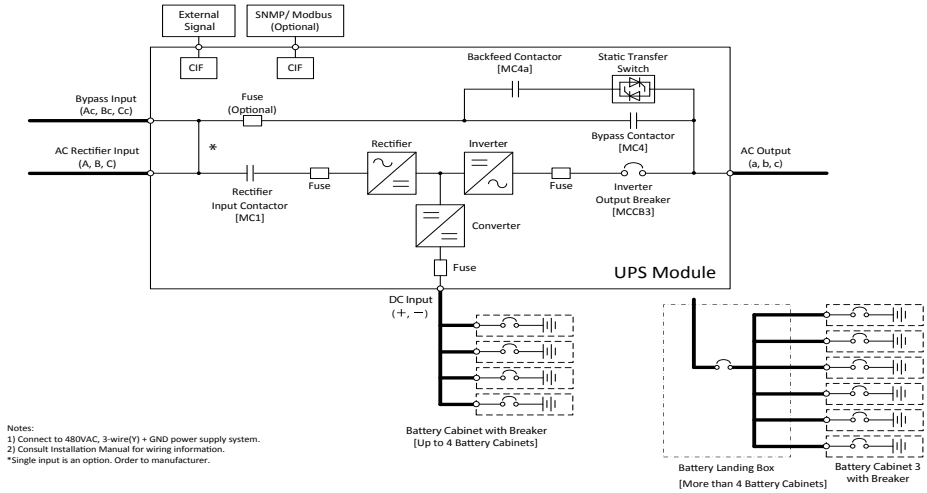
500 kVA Model Shown

UPS 7000HX-T3U
300, 400, and 500kVA

Efficient. Intelligent. Open.

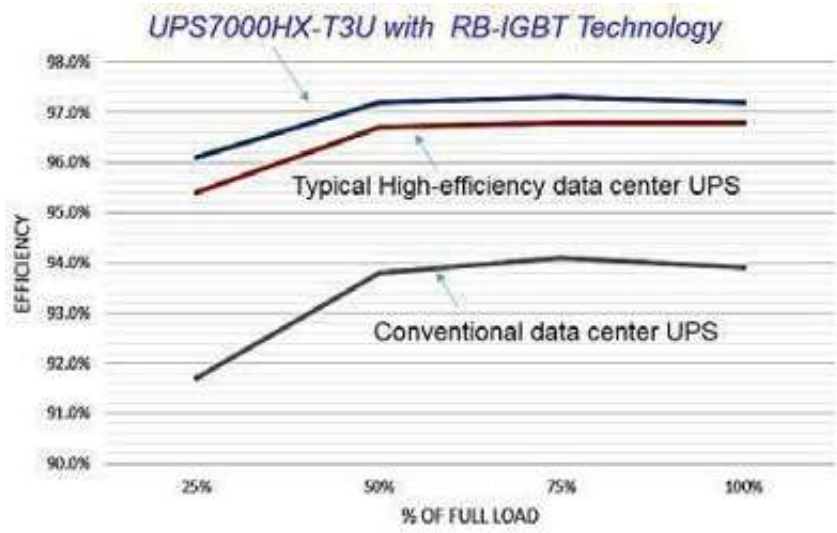
The UPS7000HX-T3U is a transformerless, true on-line, double-conversion UPS, designed to offer the most reliable, efficient, and flexible protection for your critical loads.

- AT-NPC 3-Level Circuit Topology utilizing RB-IGBT technology delivers up to 97.5% efficiency for lower operational cost
- Handles leading power factor loads (without derating)
- DC-DC Converter for battery longevity
- Parallel up to eight units
- Open architecture for convenient service and maintenance
- EnergyStar (certified as Ver.1.1, 2017)
- OSHPD certified
- Three-Year Warranty for lower cost of ownership



Utility and Generator Compatible.

- Input power factor > 0.99
- Input Current THD < 5%
- Wide input voltage range of +10%, -25% for longer battery life
- Power Walk-in feature, to avoid step-loading generators
- Generator Mode, for limiting load on generators



Optimized for the Most Sensitive and Demanding Loads.

- Industry-leading efficiency
- Efficiency of >95% at 20% load
- Outstanding voltage and frequency regulation (Voltage +/-1%; Frequency 0.01%)
- 100% unbalanced load capability
- Voltage regulation for 100% load steps <3%, without utilizing batteries
- Overload capacity 150% for 1 minute, 125% for 10 minutes

Durable. Logical. Smart.

Redundant Fans are standard, and encased in easy-to-access slides

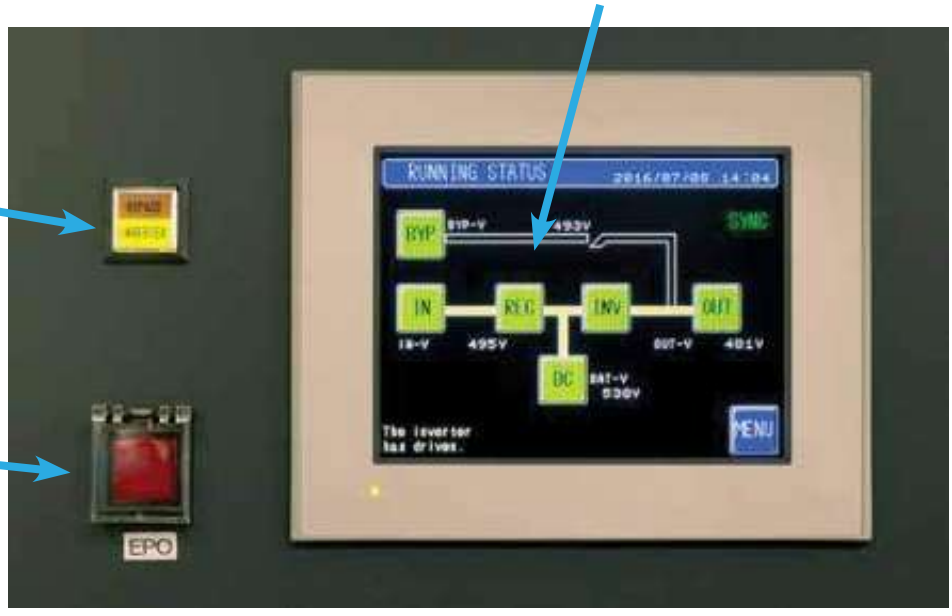
All Components Are Accessible From The Front requiring no access through the rear, making this unit truly front accessible

Air Filters are isolated from maintenance personnel by dead front panels, making them safe and convenient to replace

Oversized, Three-Phase Filter Capacitors are robustly designed and more compact than traditional cap networks

Color Touchscreen Display shows vital information clearly, and in easy-to-use menus

Global Annunciator makes determining UPS status at a glance simple

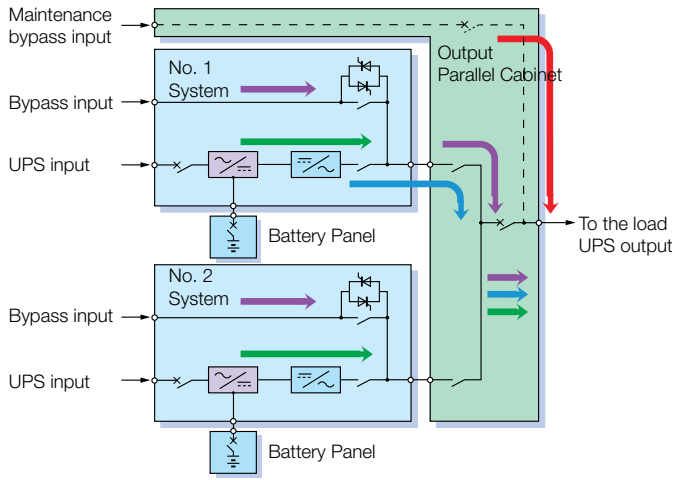


EPOs Can Be Paralleled at The Module Level, eliminating the need to run a separate all EPOs at once

Options. Monitoring. Service.

Built-In Design Flexibility

- Single or dual-input configurations to work with a multitude of site designs
- Single module or parallel installations
  Parallel up to eight modules
- Battery cabinets
- Input and output paralleling switchboards
- Maintenance Bypass Cabinets (MBP)
- Battery Disconnects
- PDUs, RPPs, and custom distribution



Monitoring Options

- SNMP
- Modbus RTU and ASCII modes
- Programmable dry contacts

Service Providers

Fuji Electric's Factory Technicians and its network of Certified Service Providers utilize factory trained technicians to service and support Fuji Electric's UPSs throughout North America.

Preventive Maintenance

Periodic inspection, calibration, and adjustment of the UPS's control and monitoring systems are highly recommended to ensure continued optimal performance and the highest level of reliability. Regular maintenance can help detect early signs of degradation in components such as air filters, capacitors and fans, and allows for timely repair minimizing the risk of the UPS unexpectedly failing. Fuji Electric has a maintenance plan for every site's needs.

Maintenance Agreements

Custom-tailored maintenance agreement packages are available to provide the service support appropriate to your needs and budget, while maximizing the performance and life of your Fuji Electric UPS. Site-specific service agreements range from basic preventive maintenance visits to extended warranty programs, 24/7/365 coverage, and discounts on replacement parts.

Warranty

The UPS7000HX-T3U and the UPS's backup battery system are supported by Fuji Electric's best-in-industry three-year parts and labor warranty, and includes a 24/7/365 tech support and service hotline.

Performance.

Fuji Electric UPS7000HX-T3U Specifications

CAPACITY	300 kVA	400 kVA	500 kVA
Topology	Online Double Conversion with RB-IGBT Technology		
AC INPUT			
Voltage / Phases	480VAC / 3-phase, 3-wire (Y) + Ground		
Voltage Range	–25% to +10%		
Frequency / Range	60 Hz / ±10%		
Power Factor	> .99 at full load		
Current THD	< 7%	< 5.5%	< 5%
Current (Nominal)	372A	496A	620A
Current (Maximum)	409A	546A	682A
BYPASS			
Voltage / Phases	480VAC / 3-phase, 3-wire (Y) + Ground		
Frequency / Range	60Hz / ±1%-5%, selectable		
BATTERY			
Voltage (Rated / Nominal)	480VDC / 545 VDC (240 cells, 2.25V per cell)		
Charging Current	30A minimum; 130A maximum		
AC OUTPUT			
Voltage / Phases	480VAC, 3-phase, 3-wire (Y) + Ground		
Voltage Regulation	< ±1%		
Frequency / Regulation	60Hz / < ±.01% (in free-running mode)		
Power Factor (Rated)	1.0		
Power Factor Range	.95 leading to .8 lagging without derating		
Voltage THD	< 2% (linear load); < 5% (non-linear load)		
Transient Voltage Regulation	< 3% (at 100% load)		
Overload Capacity	125% for 10 minutes; 150% for 1 minute		
Current (Nominal)	361A	481A	601A
ENVIRONMENTAL			
Audible Noise	≤ 75 dBA (1m in front of cabinet)		
Operating Temperature	32 to 104 °F (0 to 40°C)		
Storage Temperature	5 to 131 °F (-15 to 55°C)		
Relative Humidity	5 to 95%		
Altitude	≤ 6560 ft (2000 m)		
EFFICIENCY			
Maximum Observed	97.4%	97.5%	97.5%
100%	97.3%	97.3%	97.2%
75%	97.0%	97.3%	97.3%
50%	96.5%	97.0%	97.2%
25%	94.4%	95.4%	96.1%
DIMENSIONS			
Width	78.7 in (2000mm)		90.6 in (2300mm)
Depth	35.4 in (900mm)		
Height	78.7 in (2000mm)		
Weight	4080 lbs (1850 kg)		4190 lbs (1900 kg)
Ingress Rating	NEMA 1 (IP20)		
STANDARDS			
Safety	UL 1778 5th Edition; CSA 22.2 107.3-14 3rd Edition		
EMC	IEC 62040-2, Category C3		
Environmental	EnergyStar (certified as Ver.1.1, 2017)		

Fuji Electric

Innovating ***Energy Technology***

Engineered Like No Other

Our breakthrough innovations with power electronics technologies have led to the development of our large capacity UPS system, which provides unparalleled efficiency and superior reliability. With over 40 years of UPS development and manufacturing experience, Fuji Electric's UPS7000HX is the latest generation of UPS equipped with our own patented components for optimal performance when it counts the most.

Trusted Globally

For over 90 years, Fuji Electric has been manufacturing products for mission critical applications including data centers, power plants and hospitals. Customers around the world rely on Fuji Electric, for products ranging from the smallest IGBT to large power generation systems. We have maintained an unwavering commitment to engineering and R&D, refusing to compromise on quality and reliability. This goes hand in hand with our company's dedication to the environment, influencing our innovative products that seek to conserve, manage and produce energy.

Fuji Electric Corp. of America

50 Northfield Ave., Edison, NJ 08837
T 732-560-9410
F 732-457-0042
www.americas.fujielectric.com
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