Fuji Electric

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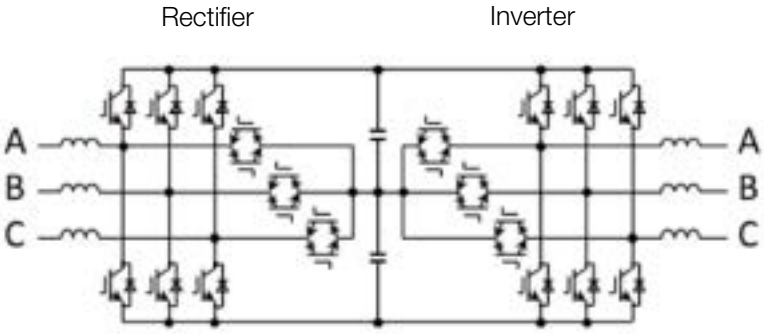
Uninterruptible Power Supply Systems **UPS7400WX-T3U**

The UPS7400WX-T3U UPS is the New Leader in Technology, Features, and Reliability



Use of RB-IGBT's reduces parts count and switching losses

Leader in Technology

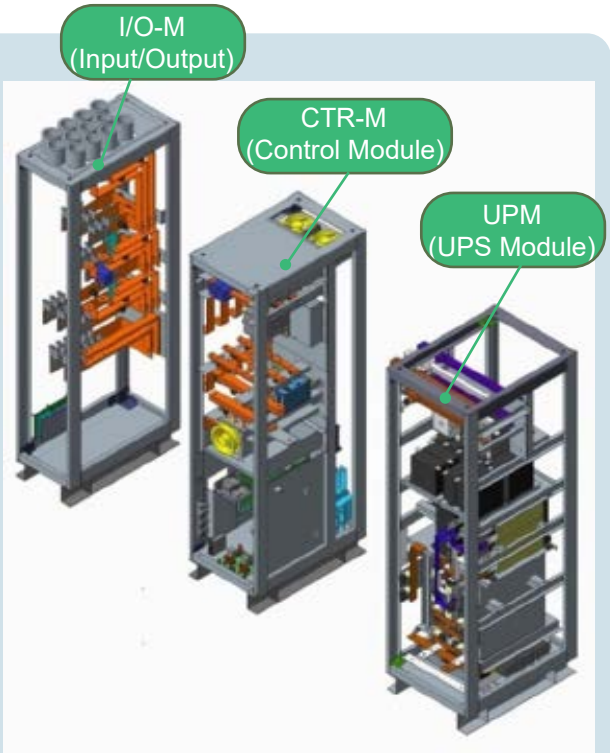
- Efficiency greater than 96% at loads as low as 25%
- Handles up to .7 leading power factor loads without derating
- Outstanding voltage and frequency regulation (Voltage +/-1%; Frequency +/-0.01%)
- 100% unbalanced load capability
- Voltage regulation for 100% load steps <3%, without utilizing batteries
- Overload capacity 150% for 1 minute, 125%for 10 minutes

Features

- Fuji Electric's exclusive AT-NPC Topology using RB-IGBT Technology in both Rectifier and Inverter
- Reduces component count in the power section, thereby reducing losses for higher efficiency

Reliability

- Module Control Management System provides the ultimate in flexibility:
  - Intra-cabinet redundancy by installing redundant UPMs (up to N+3 @ 330 kVA)
  - Module shutdown at low loads to optimize efficiency
- Fully maintainable and repairable with only front access required
- Selectable High Efficiency (HE) Mode



Specifications

UPS Rating [kVA/kW]	225	300	330	500	600	660	750	900	1000	1000
UPM Number	**1 UPM**			**2 UPMs**			**3 UPMs**			**4UPMs**
Topology	Online Double Conversion with RB-IGBT Technology									
Feature	Modular UPS system, High Efficiency Mode, Module Control Management System									
Redundancy	N+X UPM Redundancy (when "X" number of redundant modules are installed)									
Parallel System	Up to 8									
AC INPUT										
Voltage / Phases	480 VAC / 3-phase, 3-wire (Y) + Ground									
Voltage Range	–30% to +10%									
Frequency / Range	60 Hz / ±10%									
Power Factor	> .99									
Current THD	< 3% (100% linear load. When UPS kVA is downgraded, less than 5%)									
Current (Nominal)	280 A	373 A	410 A	621 A	745 A	819 A	931 A	1117 A	1241 A	1241 A
Current (Maximum)	307 A	399 A	439 A	683 A	820 A	878 A	1024 A	1228 A	1327 A	1327 A
BYPASS										
Voltage / Phases	480 VAC / 3-phase, 3-wire (Y) + Ground									
Frequency / Range	60 Hz / ±1%-5%, selectable									
HE Mode Transient	< 2 ms									
100 kAIC Bypass Fuse	Option						Standard			
BATTERY										
Voltage (Rated / Nominal),VRLA	480 VDC / 545 VDC (240 cells, 2.27 V per cell)									
Charging Current (Min / Max)	14 A / 88 A			44 A / 166 A			60 A / 260 A			60A / 260 A
Battery Type	VRLA, Li-ion battery, Flywheel									
AC OUTPUT										
Voltage / Phases	480 VAC, 3-phase, 3-wire (Y) + Ground									
Voltage Regulation	< ±1%									
Frequency / Regulation	60 Hz / < ±.01% (in free-running mode)									
Power Factor (Rated)	1.0									
Power Factor Range	.7 leading to .7 lagging without derating									
Voltage THD	< 2% (linear load); < 5% (non-linear load)									
Transient Voltage Regulation	< 3% (at 100% load step)									
Overload Capacity	125% for 10 minutes; 150% for 1 minute									
Current (Nominal)	271 A	361 A	397 A	602 A	722 A	794 A	903 A	1083 A	1203 A	1203 A
COMMUNICATION										
Card Slots	2 slots standard (4 slots optional)									
Protocols	SNMP, Modbus RTU, Modbus TCP/IP									
ENVIRONMENTAL										
Audible Noise	≤ 75 dBA (1m in front of cabinet)									
Operating Temperature	32 to 104 °F (0 to 40°C)									
Storage Temperature	-13 to 131 °F (-25 to 55°C)									
Relative Humidity	5 to 95% (Non-condensing)									
Altitude	≤ 6560 ft (2000 m)									
EFFICIENCY*										
Max Capacity	330 kW			660 kW			1000 kW			1000 kW
Number of UPM	1 UPM			2 UPM			3 UPM			4 UPM
Load factor of UPS	0%	25%	50%	75%	100%	75%	100%	75%	100%	75%
Load	0 kW	82.5 kW	165 kW	247.5 kW	330 kW	495 kW	660 kW	750 kW	1000 kW	1000 kW
Efficiency of Normal Mode	0%	96.2%	97.1%	97.2%	97.1%	97.2%	97.0%	97.2%	96.9%	97.1%
Efficiency of HE Mode	98.6%*									
DIMENSIONS										
Width	84.6 in (2150 mm)			108.3 in (2750 mm)			131.9 in (3350 mm)			155.5 in (3950mm)
Depth	32.7 in (830 mm)									
Height	79.5 in (2020 mm)									
Weight	3285 lbs (1490 kg)			4630 lbs (2100 kg)			5975 lbs (2710 kg)			7319 lbs (3320 kg)
Ingress Rating	NEMA 1 (IP20)									
STANDARDS										
Safety	UL 1778 5th Edition; CSA 22.2 No.107.3-14 3rd Edition									
EMC	IEC 62040-2, Category C3									

* The Efficiency of HE Mode is reference data.

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FEA-UPS-DS-100d
9/2024