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Installation Conditions

- This unit is designed to be used indoors.
  Do not install in a place exposed to direct sunlight, wind or rain.
- Avoid a dusty, hot and/or humid place.
- Our UPS is designed to work in a temperature range of 0 to +40°C.
  However, we recommend that it be used at +25°C or lower to ensure stable operation over the entire life of the UPS.
- System multiplexing, installation of an emergency generator set, and special measures for operation, maintenance and control are required when the system is to be used for the following applications.
  Contact us in such cases.
  - Medical equipment that directly affects human life
  - Equipment that may cause personal injury
  - Computer systems of social or public importance

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Fuji Electric

Innovating Energy Technology

On-line UPS

Fuji Medium-capacity UPS

UPS5100CF Series / Three-phase 10 to 300 kVA

Small but powerful.
Protect your system against unexpected risks.

Main Features

- Online double conversion, VFI
- Power factor 0.9
- Wide input voltage range
- High overload capabilities
- Isolation transformer protection
- External battery system for long backup support
- High power and redundancy, with up to 4 parallel units
- Compact footprint with high power density
- Dual DSP control and redundancy
- Dual air duct ventilation
- Eco-mode with high efficiency @ 98%

Reliable, cost effective power protection against unexpected risks

26A1-E-0043a

Model No. designation

UPS5100CF – T4 / □□□
① ② ③

① Fuji UPS series
② Three phase, 4 wire
③ Output capacity [kVA]

● High Availability

Increase system availability with two UPS in N+1 redundancy configuration, or with up to 4 parallel units.

● Higher Power

Provides 12% more active power than conventional UPS with 0.7 power factor.

● High Reliability

Dual DSP control provides redundancy UPS control, and greatly reduces UPS shutdown due to control failures.

● Smart Battery Management

Improves battery performances and extends battery life.
Smart-fan controller and dual air duct ventilation improves overall UPS, battery performance and prolongs fan service life.

● High Adaptability

Applicable for harsh industrial environment with added protection by isolation transformer. Also suitable for IT/Computer, Data centers and automation environment, and many more.

● Improves TCO

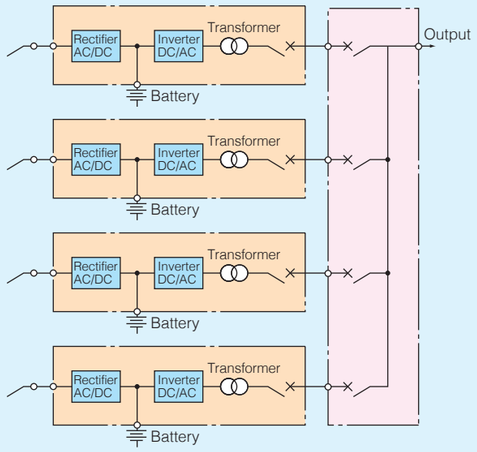
Eco-mode with high efficiency operating at 98% efficiency significantly reduced energy lost, reduced cost.

● High Power Density & Compact

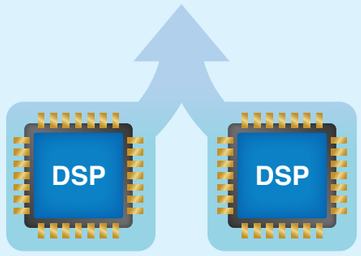
Small UPS footprint and its battery racks saves valuable floor space. Perfect solution for customers with site space constrains.

● User Friendly

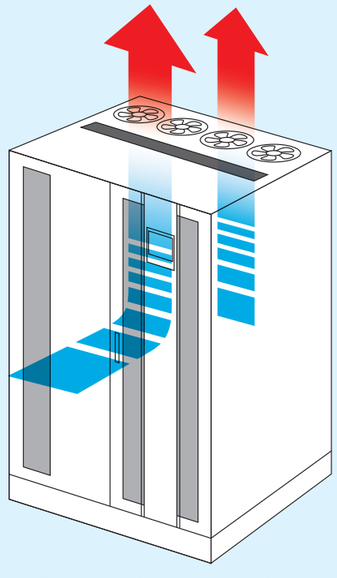
With HMI operation, multilanguage touch screen display.



High availability



Dual DSP control



Dual air duct ventilation

Specification

Model		T4 / 10	T4 / 20	T4 / 30	T4 / 40	T4 / 60	T4 / 80	T4 / 100	T4 / 120	T4 / 160
Input	Voltage(Vac)	380 / 400 / 415 ±25%								
	Rectifier frequency [Hz]	40 to 70								
	SYNC frequency tracking[Hz]	50 / 60±10% (±5% optional)								
	Phase	3φ4W + PE								
Output	Capacity [kVA]	10	20	30	40	60	80	100	120	160
	Phase	3φ4W + PE								
	Voltage(Vac)	L-N: 220 / 230 / 240 ±1%, L-L: 380 / 400 / 415 ±1%								
	Frequency [Hz]	50 / 60 ±0.2% (battery mode)								
	Load power factor	0.9								
	Waveform	Pure sine wave, THD≦2% (linear load)								
	3 Phases 100% Load unbalance Voltage stability	≦2%, allow 100% unbalance								
	Overload	125% load for 10 mins, 150% load for 1 min								
Battery	Voltage(Vdc)	348 (360 optional)								
	Type	External								
	Charging current [A]	10			10 , 15			10 , 15 , 20		
Other	Maintenance bypass	Yes								
	Communication interface	RS-485 / MODBUS / DRY CONTACTS (SNMP is optional)								
	Display	Touch screen + LED								
	Alarm	Overload, abnormal AC input, low battery, UPS failure								
	Protection	Low battery, overload, over temperature, short circuit, output over voltage, output low voltage								
	Noise [dB]	≦65					≦70			
	Operating temperature	0 to 40 ˚C								
	Relative humidity	5 to 95%, No condensation								
	Dimension(W×D×H) [mm]	500×600×1180			500×800×1600			700×800×1800		
	Mass [kg]	230	260	300	400	450	520	600	650	825

Model		T4 / 200	T4 / 250	T4 / 300
Input	Voltage(Vac)	380 / 400 / 415 ±25%		
	Rectifier frequency [Hz]	40 to 70		
	SYNC frequency tracking[Hz]	50 / 60 ±10% (±5% optional)		
	Phase	3φ4W + PE		
Output	Capacity [kVA]	200	250	300
	Phase	3φ4W + PE		
	Voltage(Vac)	L-N: 220 / 230 / 240 ±1%, L-L: 380 / 400 / 415 ±1%		
	Frequency [Hz]	50/60±0.2% (battery mode)		
	Load power factor	0.9		
	Waveform	Pure sine wave, THD≦2% (linear load)		
	3 Phases 100% Load unbalance Voltage stability	≦2%, allow 100% unbalance		
	Overload	125% load for 10 mins, 150% load for 1 min		
Battery	Voltage(Vdc)	384 (348 / 360 / 372 setting)		
	Type	External		
	Charging current [A]	10 to 40		
Other	Maintenance bypass	Yes		
	Communication interface	RS-485 / MODBUS / DRY CONTACTS (SNMP is optional)		
	Display	Touch screen + LED		
	Alarm	Overload, abnormal AC input, low battery, UPS failure		
	Protection	Low battery, overload, over temperature, short circuit, output over voltage, output low voltage		
	Noise [dB]	≦73		
	Operating temperature	0 to 40 ˚C		
	Relative humidity	5 to 95%, No condensation		
	Dimension(W×D×H) [mm]	1400×1000×1850		1600×1000×1850
	Mass [kg]	1280	1568	1830

＊Specification is subject to change without prior notice.
＊If the higher charging current is adjusted, the UPS capacity shall be derated.