

Uninterruptible Power System

Fuji Global Mini-UPS

GX Series

1,500VA to 10kVA



Dual-Conversion



UPS Evolving to New Generation GX Series

As sophisticated information systems spread throughout society, the stability of such systems is of paramount importance. Uninterruptible power supplies (UPS) have thus become essential for system control in order to protect mission-critical facilities such as information systems and network equipment from power interruptions and other power troubles.

As the use of UPS has spread, its technologies have progressed significantly, including product reliability, downsizing, and network linking.

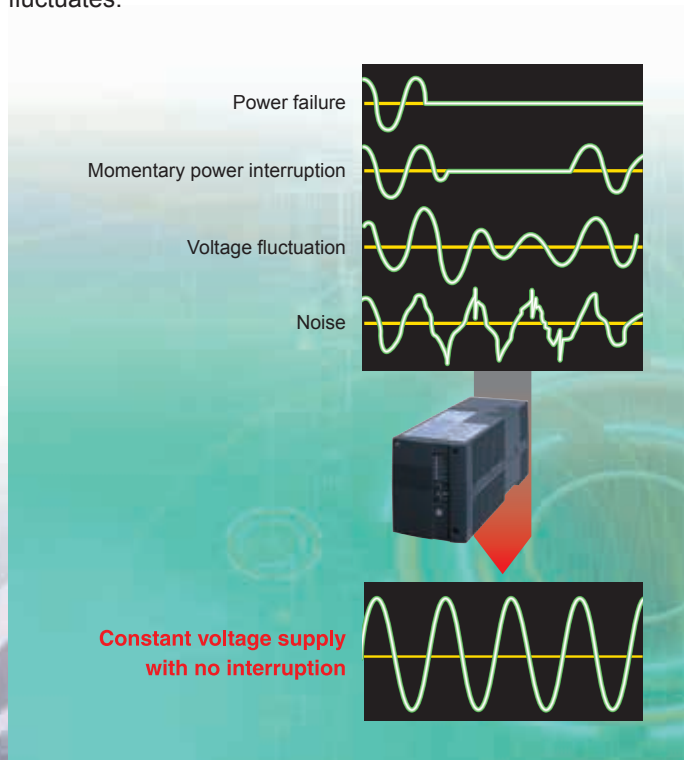
Fuji Electric's innovative dual conversion system marks a new generation of UPS.

High-reliability UPS Dual Conversion System

This is a new system offering the advantages of both inverter power supply and commercial power supply in the normal status (patent pending).

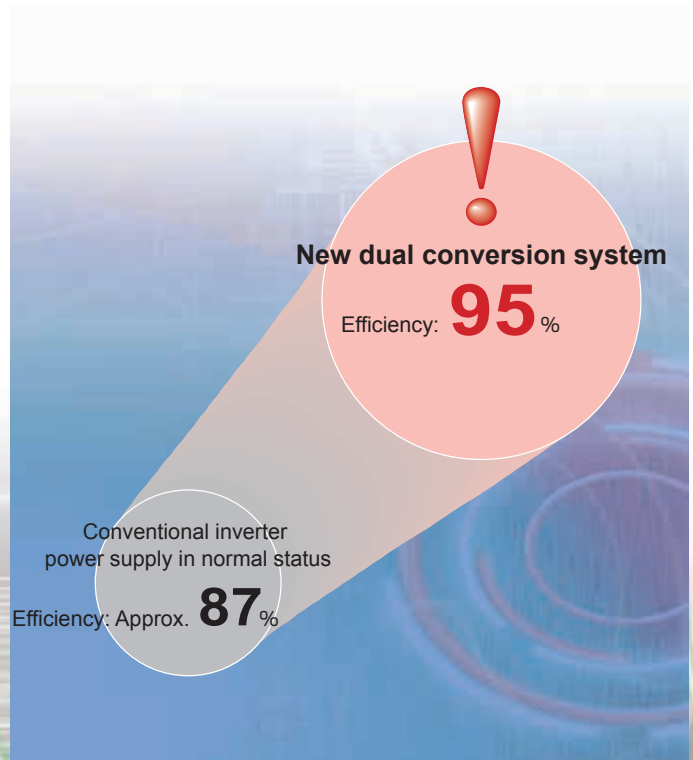
Highly Reliable Output Stability

- Even during changeover to battery power supply due to a power failure, the load is backed up with no momentary interruption.
- Stable voltage output is ensured even if the input voltage fluctuates.



High Energy Efficiency

- Novel, unique circuitry yields a high efficiency (95 %) with minimum power loss.





GX 1500 VA self-standing
 3000 VA self-standing
 5000 VA self-standing
 7500 VA self-standing
 10000 VA self-standing

GX 1500 VA rack-mounting
 3000 VA rack-mounting
 10000 VA rack-mounting

Features of GX Series Dual Conversion System

- Output stability equivalent to inverter power supply in normal status
- High efficiency (conversion efficiency 95 %)
- Comparison with conventional systems

Output characteristics favorable for load		Dual conversion system	Double conversion	Line interactive (Tap changeover)	Offline
		<p style="text-align: center;">GX series</p>	<p style="text-align: center;">Fuji Electric's J series</p>	<p style="text-align: center;">Fuji Electric's NetpowerProtect series</p>	
Output voltage					
High accuracy output	Voltage fluctuation	±3 % in normal status ±3 % at power failure	±2 % in normal status ±2 % at power failure	±10 % in normal status ±5 % at power failure	+20 %, -12 % in normal status ±3 % at power failure
	Changeover time at power failure	No interruption	No interruption	4 to 10 ms	4 to 10 ms
High efficiency		95 %	87 %	95 %	97 %

Features of GX Series

Global Standard

■ Applicable to voltages world-wide

(200 V, 208 V, 220 V, 230 V, 240 V output*) *note : 100 V output models also available

■ International Safety Approvals : UL, CE mark RoHS-compliant



Type	1.5 kVA Self-standing	1.5 kVA Rack-mount	3 kVA Standing-cum-Rack-mount	3 kVA Rack-mount
Model	M-UPS015AE2S-UC (B)	M-UPS015AE2R-UC (B)	M-UPS030AE2B-UC (B)	M-UPS030AE2R-UC (B)
AC Input	Rated voltage	160 V to 288 V		
	Frequency	50/60 Hz (±5 %)		
AC Output	Rated output capacity	1500 VA/1200 W	1500 VA/1200 W	3000 VA/2400 W
	Output voltage	200 V ± 2 % / 208 V ± 2 % / 220 V ± 2 % / 230 V ± 2 % / 240 V ± 2 %		
	Frequency	50/60 Hz		
	Changeover time at power failure/recovery	No interruption		
	Waveform	Sine wave		
Battery	Battery type	Small-size sealed lead acid battery (Long life type)		
	Battery Life	4 years (25 deg. C)		
Connection type	Input	IEC60320-1C14	Terminal block (M4 screws)	
	Output	8 × IEC60320-1C13	Terminal block (M4 screws)	
External Dimensions [mm]	W170 × D480 × H213	W437 × D520 × H87 (2U)	W172 (4U) × D480 × H410	W437 × D680 × H87 (2U)
Mass	24 kg	26 kg	47 kg	42 kg
Environmental	Ambient Temperature	0 to 40 deg. C		
	Relative Humidity	20 to 90 %		
Interface	Contacts + RS-232C (Option: Web/SNMP, USB)			
UPS Life	8 years			

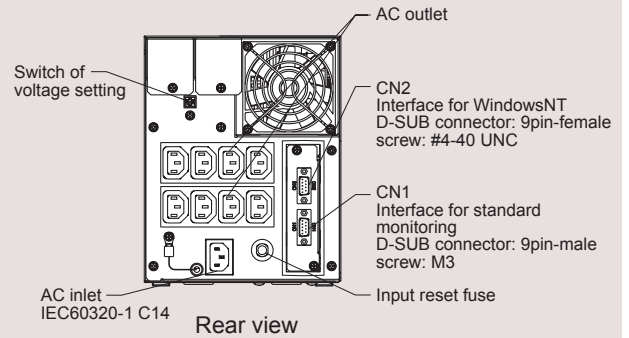
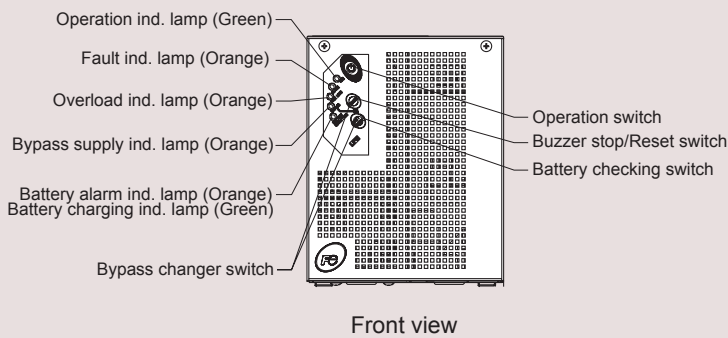
Type	5 kVA Self-standing-cum-Rack-mount	7.5 kVA Self-standing-cum-Rack-mount	10 kVA Self-standing-cum-Rack-mount	
Model	M-UPS050AD2B-UC (B)	M-UPS075AD2B-UC (B)	M-UPS100AD2B-UC (B)	
AC Input	Rated voltage	160 V to 288 V		
	Frequency	50/60 Hz (±5 %)		
AC Output	Rated output capacity	5 kVA/4 kW	7.5 kVA/6 kW	10 kVA/8 kW
	Output voltage	200 V ± 2 % / 208 V ± 2 % / 220 V ± 2 % / 230 V ± 2 % / 240 V ± 2 %		
	Frequency	50/60 Hz		
	Changeover time at power failure/recovery	No interruption		
	Waveform	Sine wave		
Battery	Battery type	Small-size sealed lead acid battery (Long life type)		
	Battery Life	4 years (25 deg. C)		
Connection type	Input	Terminal block (M5 screws)	Terminal block (M8 screws)	Terminal block (M8 screws)
	Output	Terminal block (M5 screws)	Terminal block (M8 screws)	Terminal block (M8 screws)
External Dimensions [mm]	W130 (3U) × D708 × 434	W256(6U) × D771 × H434	W256(6U) × D771 × H434	
Mass	63 kg	127 kg	127 kg	
Environmental	Ambient Temperature	0 to 40 deg. C (Altitude 2000 m or less) / 0 to 35 deg. C (Altitude from 2000 m to 3000 m or less)		
	Relative Humidity	20 to 95 % (no condensation)		
Interface	Contacts + RS-232C (Option: Web/SNMP, USB)			
UPS Life	8 years			

*1 Not UL Certified.

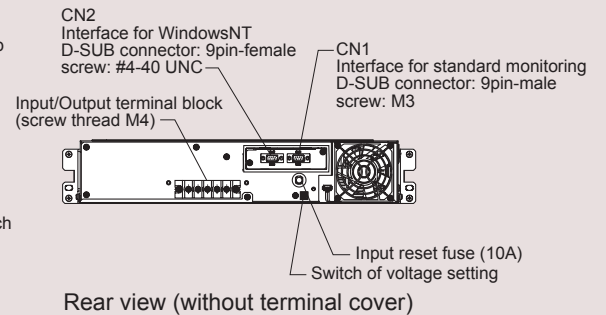
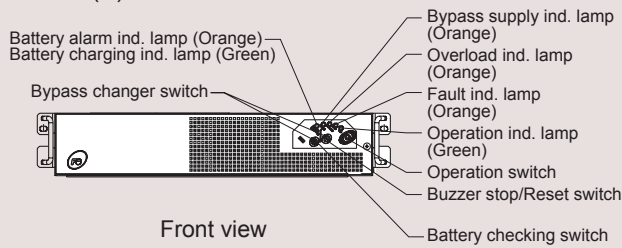


Dimensions [Unit : mm]

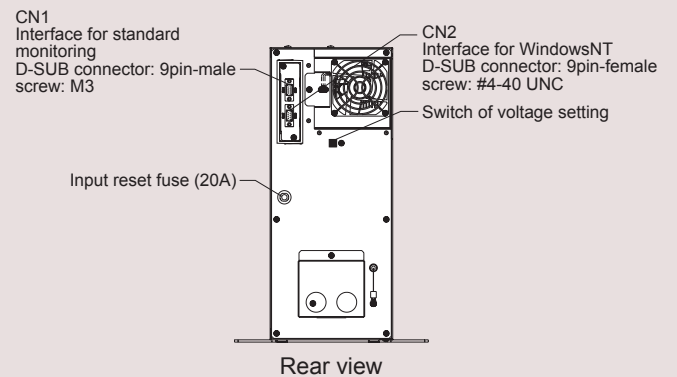
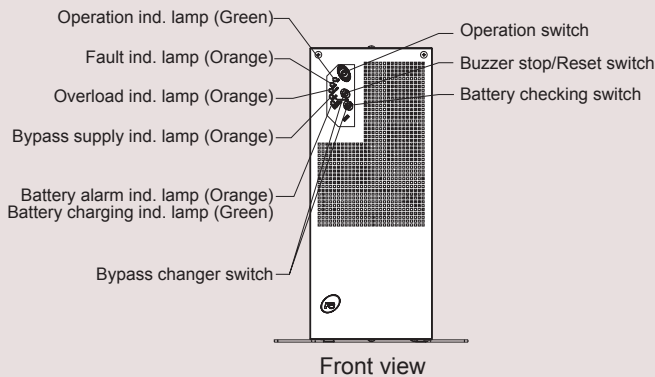
■ M-UPS015AE2S-UC (B)



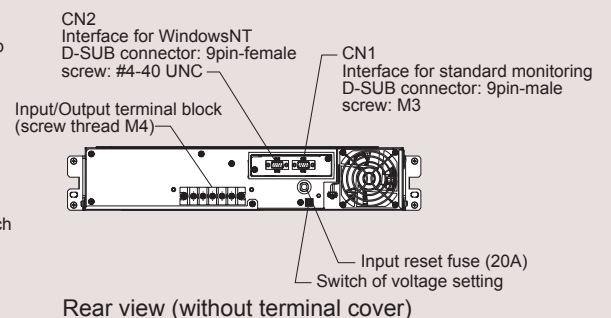
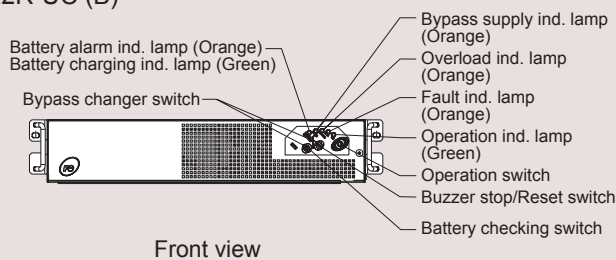
■ M-UPS015AE2R-UC (B)



■ M-UPS030AE2B-UC (B)

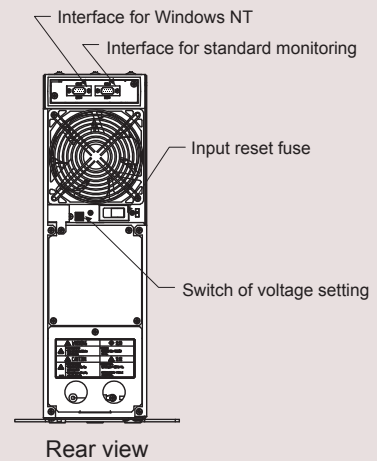
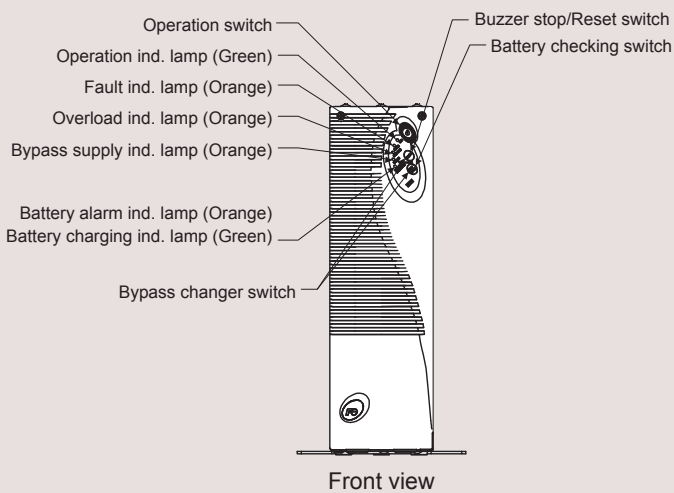


■ M-UPS030AE2R-UC (B)

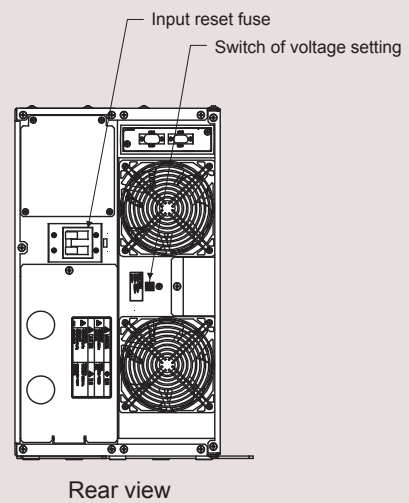
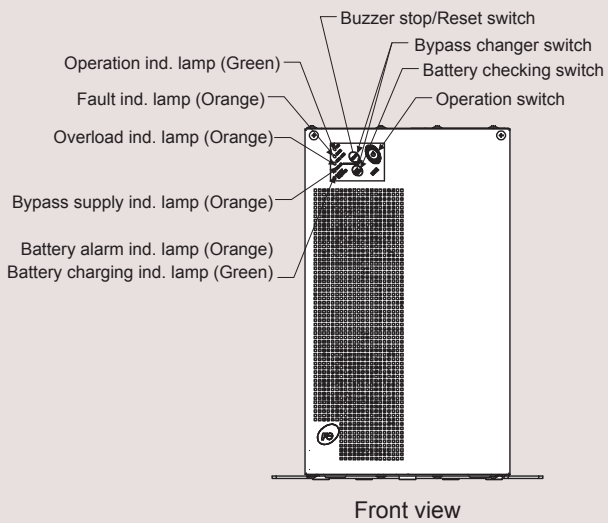


Dimensions [Unit : mm]

■ M-UPS050AD2B-UC (B)



■ M-UPS075AD2B-UC (B), M-UPS100AD2B-UC (B)





Network Card (Web/SNMP card)

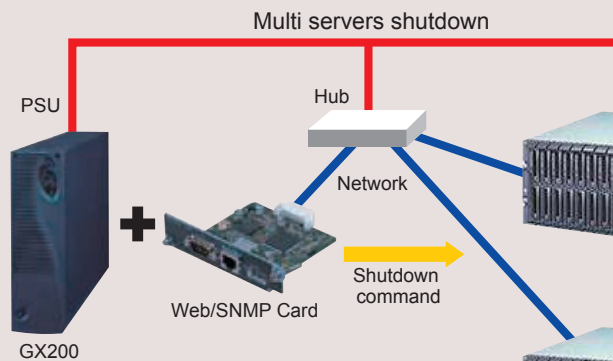
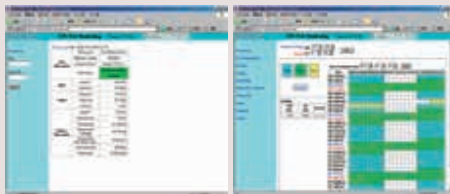


RRACWG04

Functions

- Surveillance to UPS/Power Supply conditions, e-mailing notice
- Multi-servers shutdown
- Scheduled operations
- SNMP

Surveillance by Web Browser

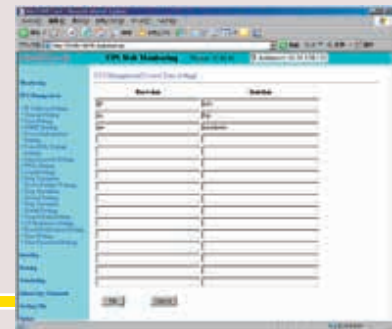
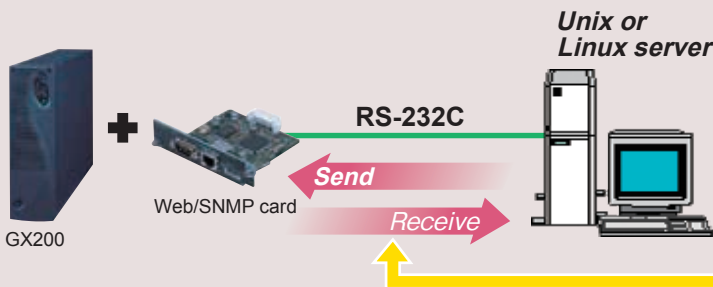


Shutdown software "Netshut" to be Installed with CD [Bundled 8 licenses with Web/SNMP card]

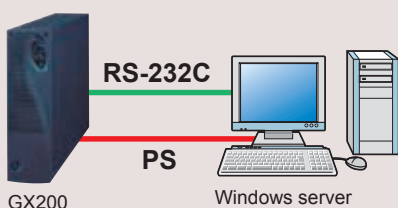
Over 200 servers Operating system

- Windows Vista, 7, 8, 8.1
- Windows Server 2008, 2012
- Redhat EL5.3, 6.2
- CentOS5, SUSE 11

Operating system shutdown uses serial console



UPS Management Software



Functions

- Surveillance to UPS/Power Supply conditions, e-mailing notice
- Server shutdown

USB Interface (Only Japanese version available)



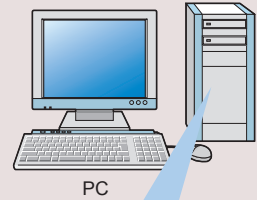
USB Card (RRACWG13)



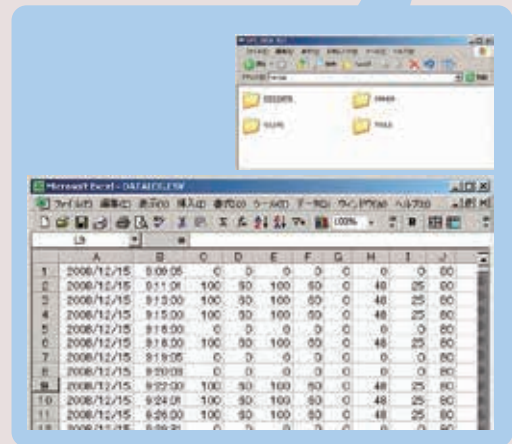
GX200



USB cable



PC



Features

- With USB cable only connected, you can see UPS internal files (Software install not needed).
- Shutdown possible with Windows Power Supply control service function.
- By using an optional switch box, you can boot-up/shut-down UPS + PC in cooperation.

Installation Conditions

- This unit is designed to be used indoors.
Do not install in a place exposed to direct sunlight, wind or rain.
- In case of the forced air cooling specification, secure a space of at least 10cm behind the UPS for normal cooling.
- Avoid a dusty, hot and/or humid place.
- This unit should be used at an operating temperature of 25°C or lower.
- 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

Maintenance

- The battery requires periodic replacement (according to a regular schedule).
- Although the battery does not require daily maintenance, its service life will be shortened if the ambient temperature rises (a rise of 10°C will reduce the life by half). The battery life also varies with the ambient conditions.
 - If the battery continues to be used after reaching the end of its service life, not only will the UPS fail to provide backup operation in the event of a momentary voltage drop or power failure, but also secondary troubles such as odor or fumes may be generated.
 - For periodic preventive replacement, it is recommended to make a contract for overhaul maintenance.

©Even if a trouble occurs due to use of this product (hardware/software), Fuji Electric will not compensate for any damages whatsoever, including damages caused by an error or trouble of connected equipment and software, and other secondary damages.

* The product names and company names used in this catalog are trademarks or registered trademarks of the respective companies.

FE Fuji Electric Co., Ltd.

Gate City Ohsaki, East Tower, 11-2,
Osaki 1-chome, Shinagawa-ku, Tokyo 141-0032, Japan

FE Fuji Electric Asia Pacific Pte. Ltd.

151 Lorong Chuan, #03-01/01A New Tech Park Lobby A,
SINGAPORE 556741
Phone : +65-6533-0014