

Mini-UPS GX100/200 Series



High Performance and High Efficiency

- Dual conversion method
- High efficiency and reduced electricity consumption
- Automatic battery check function

FEATURES



Constant inverter dual conversion method

- The constant inverter dual conversion method combines the advantages of both the constant inverter power supply method and the constant commercial power supply method.
- High performance and 95% efficiency (GX200), provides stable power supply environment, energy-saving operation, and contributes to cost reduction.

Full battery check functionality

- Automatically checks for battery degradation at each startup and at regular intervals.
- Safe battery checks avoid the risk of system downtime due to low UPS output.
- A built-in temperature sensor checks battery temperature. Buzzer and LED will indicate the time to replace the battery.

Easy maintenance and battery replacement

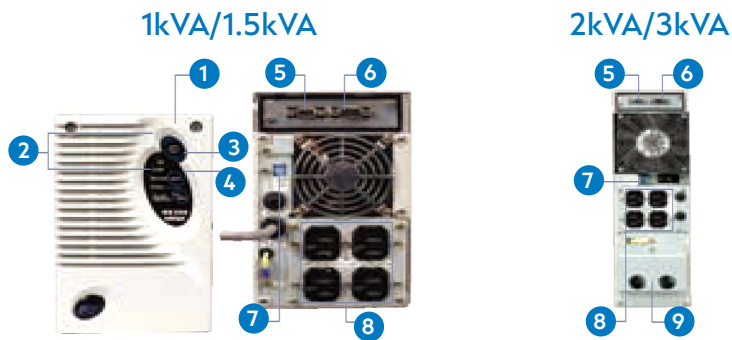
- Battery hot-swappable.
- Front operation type available.

Compatible with various voltage

- GX100 Series 1 to 3kVA and 5kVA (Stand & Rack): 100V, 105V, 110V, 115V, 120V
- GX100 Series 5kVA (Stand) to 10kVA: 100V, 200V
- GX200 Series: 200V, 208V, 220V, 230V, 240V

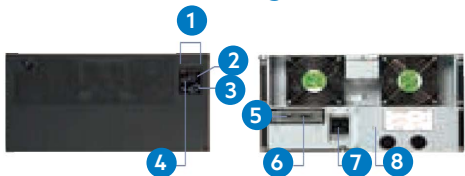
PRODUCT OVERVIEW

GX100 Series



- | | |
|-----------------------------|----------------------------------|
| 1. Operation switch | 6. Standard monitoring interface |
| 2. LED display | 7. Voltage setting switch |
| 3. Buzzer stop/reset switch | 8. AC output outlet |
| 4. Battery check switch | 9. Input/output terminal block |
| 5. PC interface | |

5kVA (both self-standing and rack mounting)



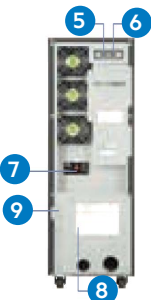
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| 1. LED display | 6. Interface for standard monitoring |
| 2. Battery check switch | 7. Input breaker |
| 3. Operation switch | 8. I/O terminal block |
| 4. Buzzer stop/reset switch | |
| 5. Interface for PC | |

5kVA (both self-standing)



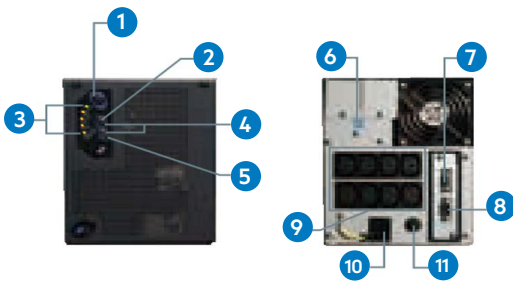
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|----------------------|---------------------------------------|
| 1. LCD display | 6. Interface for standard monitoring |
| 2. Operation section | 7. Input breaker |
| 3. LED display | 8. I/O terminal block |
| 4. Operation switch | 9. Expansion battery module connector |
| 5. Interface for PC | |

7.5kVA/10kVA



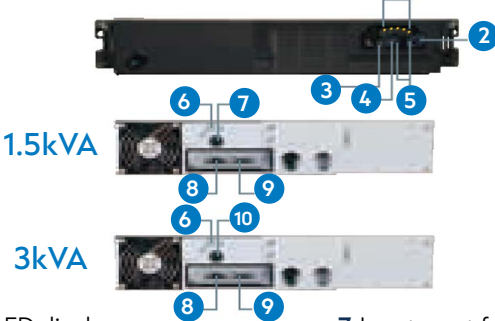
GX200 Series

1.5kVA (Self-standing)



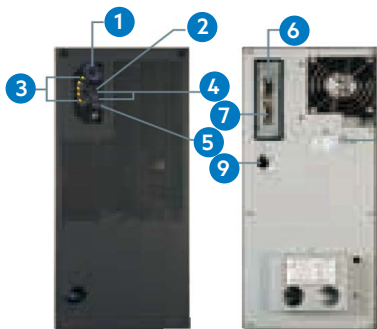
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| 1. Operation switch | 7. Interface for PC |
| 2. Buzzer stop/reset switch | 8. Interface for standard monitoring |
| 3. LED display | 9. AC output outlet |
| 4. Bypass switch (double push) | 10. AC input outlet |
| 5. Battery check switch | 11. Reset fuse |
| 6. Voltage setting switch | |

1.5kVA/3kVA (Rack)



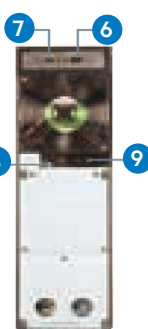
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| 1. LED display | 7. Input reset fuse |
| 2. Operation switch | 8. Interface for standard monitoring |
| 3. Battery check switch | 9. Interface for PC |
| 4. Buzzer stop/reset switch | 10. Input breaker |
| 5. Bypass switch (double push) | |
| 6. Voltage setting switch | |

3kVA (Self-standing)

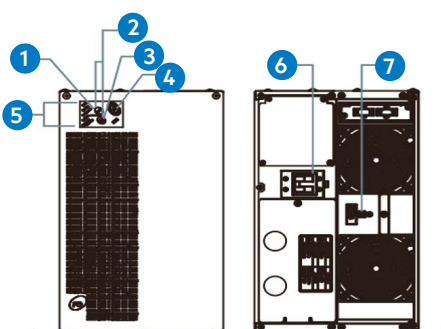


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|--------------------------------|---|
| 1. Operation switch | 6. Interface for standard monitoring |
| 2. Buzzer stop/reset switch | 7. Interface for PC |
| 3. LED display | 8. Voltage setting switch input breaker |
| 4. Bypass switch (press twice) | |
| 5. Battery check switch | |

5kVA



7.5kVA/10kVA



- | | |
|--------------------------------|------------------------------|
| 1. Buzzer stop/reset switch | 5. LED display |
| 2. Bypass switch (press twice) | 6. Input breaker |
| 3. Battery check switch | 7. Voltage adjustment switch |
| 4. Operation switch | |

SPECIFICATIONS

GX100 Series (1~5kVA)

Item		1kVA	1.5kVA	2kVA ^{*1}	3kVA ^{*1}	5kVA
Type ^{*2}	UL certified	M-UPS010AD1B-U	M-UPS015AD1B-U	M-UPS020AD1B-U	M-UPS030AD1B-U	M-UPS050AD1B-U(B)
	(with Casters)	-	-	M-UPS020AD1C-U	M-UPS030AD1C-U	M-UPS050AD1C-U(B)
	UL certified, CE marking	M-UPS010AD1B-UC	M-UPS015AD1B-UC	M-UPS020AD1B-UC	M-UPS030AD1B-UC	M-UPS050AD1B-UC(B)
	(with Casters)	-	-	M-UPS020AD1C-UC	M-UPS030AD1C-UC	M-UPS050AD1C-UC(B)
	Locking outlet	M-UPS010AD1B-L	M-UPS015AD1B-L	M-UPS020AD1B-L	M-UPS030AD1B-L	-
	(with Casters)	-	-	M-UPS020AD1C-L	M-UPS030AD1C-L	-
Operation Method		Dual-Conversion system with permanent inverter.				
AC Input	Voltage	85~138V (Input Wide Range)				
	Number of Phases and Lines	Single-Phase 2-wire				
	Frequency	50/60Hz±5%				
	Maximum input Current	10A	12A (-U, -UC) 15A (-L)	20A	30A	50A
	Power Factor	0.97 or higher				
AC Output	Output capacity	1kVA/700W	1.2kVA/900W(-U,-UC) 1.5kVA/1050W(-L)	2kVA/1400W	3kVA/2100W	5kVA/4kW
	Number of phases and lines	Single phase 2 wire				
	Output voltage	100, 105, 110, 115, 120V±2%				
	Output frequency	50/60Hz±0.1% (at backup)				
	Waveform	Sine Wave				
	Power failure switching time	Non-interruptible				
	Direct feed bypass circuit	Relay Switching: within 10 ms		Thyristor Switching: uninterruptible		
Battery	Type	Small control valve type lead-acid battery				
	Backup time ^{*3}	6 min (load 700W)	6 min (load 1050W)	6 min load 1400W	6 min load 2100W	6 min load 4000W
		10 min (load 450W)	7 min (load 900W)	10 min (load 900W)	10 min load 1300W	10 min load 2700W
			10 min (load 680W)			
	Nominal Voltage	24V	36V	48V	72V	72V
	Battery Replacement	Replacement from front (hot swappable)				
External Connection	Input	2P grounding plug (cord 2m)		Terminal block (M5)		Terminal block (M6)
	Output	2P grounding outlet x 4		Terminal block (M5), 2P grounding outlet x 4		Terminal block (M6)
Card Slot		Standard interface card installed				
Environmental Conditions	Ambient Temperature	0~+40°C				
	Humidity	20 to 95% (no condensation)				
	Noise	40dB(A) or less		42dB(A) or less		55dB(A) or less
	Input impulse	-U, -L: 5kV (1.2×50μs) , -UC: 2kV (1.2×50μs)				
Cooling Method		Forced air cooling				
External Dimensions (W x D x H) mm		128(3U)×365×214	128(3U)×545×214	130(3U)×515×434 [*]	130(3U)×515×434 [*]	240(6U)×700×434 [*]
	(with casters)	-	-	130×515×498 [*]	130×515×498 [*]	240×700×514 [*]
Weight		13.5kg	21.5kg	33kg	39kg	78kg
	(with casters)	-	-	36kg	42kg	84kg
Breaker capacity required for upper level		15A or higher	20A or higher	30A or higher	40A or higher	70A or higher

*1: A caster unit is available as an option (Model: RRACU020AD1B). *2: -U or -UC requires the specified input breaker.
*3: Backup time is an actual value, not a guaranteed value. *4: Terminal block cover is not included.

Extension Battery Module Specifications (1~3kVA)

Format*1	External Dimensions W×D×H [mm]	Weight [kg]	Applicable UPS
RRAB010AD1B-(L)	128×365×214	18	M-UPS010AD1B-*2
RRAB015AD1B-(L)	128×545×214	26	M-UPS015AD1B-*2
RRAB020AD1B-(L)*2	130×508×434	40	M-UPS020AD1B-*2
RRAB030AD1B-(L)*2		52	M-UPS030AD1B-*2

*1: The (L) in the model number indicates the paint color (light gray).
*2: A caster unit is available as an option (Model: RRACU020AD1B).
**Part number.

Attachment for 19-inch Rack Mount

Use for mounting in a 19-inch rack cabinet.

Format	Applicable Models		Applicable 19-inch rack standard
	UPS	Extension Battery Module	
RRAK010C-E(L)*1	M-UPS010AD1B	RRAB010AD1B-(L)	EIA
	M-UPS015AD1B	RRAB015AD1B-(L)	
RRAK020C-E(L)	M-UPS020AD1B	RRAB020AD1B-(L)	EIA
	M-UPS030AD1B	RRAB030AD1B-(L)	
RRAK075C-E(B)	M-UPS050AD1B	RRAB050AD1B-(B)	EIA

*1: One attachment can hold up to two UPSs, expansion battery modules, or option boxes.

GX100 Series (5~10kVA)

Item		5kVA		7.5kVA		10kVA	
Type	UL Recognized, CE Marking	M-UPS050AD1S-UC(B)	M-UPS050AD2S-UC(B)	M-UPS075AD1S-UC(B)	M-UPS075AD2S-UC(B)	M-UPS100AD1S-UC(B)	M-UPS100AD2S-UC(B)
	Locking Outlet	-	-	-	-	-	-
Operation Method		Permanent inverter dual-conversion system (Dual-Conversion)					
AC Input	Rated Voltage	100V±15%	200V±15%	100V±15%	200V±15%	100V±15%	200V±15%
	Phases and Lines	Single-Phase 2-wire					
	Frequency	50/60Hz±5%					
	Maximum Input Current	50A	25A	75A	37.5A	100A	50A
	Power Factor	0.97 or higher					
AC Output	Rated Output Capacity	5kVA/4kW		7.5kVA/6kW		10kVA/8kW	
	Phases and Lines	Single-phase 2-wire (single-phase 3-wire also possible)					
	Output Voltage	100 and 200V±2%					
	Output Frequency	50/60Hz±0.1% (at backup)					
	Waveform	Sine wave					
	Power Failure Switching Time	Uninterruptible					
	Direct Feed Bypass Circuit	Thyristor Switching: Uninterruptible					
	Battery	Type	Small control valve type lead-acid battery				
Backup Time ^{*2}		10 minutes (load 4000W)		10 minutes (load 6000W)		10 minutes (load 8000W)	
Nominal Voltage		216V					
Battery Replacement		Replace from front (hot-swappable)					
External Connection	Input	Terminal block (M6)		Terminal block (M8)			
	Output	Terminal block (M6)		Terminal block (M8)			
Card Slot		Standard interface card installed					
Environmental Conditions	Ambient Temperature	0~+40℃					
	Relative Humidity	20 to 95% (no condensation)					
	Noise	50dB(A) or less		55dB(A) or less			
	Input Impulse	UC product: 2kV (1.2×50μs)					
Cooling Method		forced air cooling					
External Dimensions (W x D x H) mm ^{*3}		350×700×675		350×700×900		350×700×1050	
Weight		180kg		235kg		300kg	
Breaker capacity required for upper level		70A or higher	30A or higher	100A or higher	50A or higher	125A or higher	70A or higher
Main Optional Accessories (sold separately)		Relay Card (RRACWG103, RRACWG114)					
		USB Card (RRACWG13)					
		Web/SNMP card (RRACWG124)					

*1: -U or -UC requires the specified input breaker.
*2: 1) Backup time is an actual value, not a guaranteed value. 2) Ambient temperature: 25°C, initial characteristics
*3: Terminal block cover is not included.

Extension Battery Module Specifications (5-10kVA)

Format ^{*1}	External Dimensions W×D×H [mm]	Weight [kg]	Applicable UPS
RRAB050AD1B-(B) ^{*2}	256×700×434	105	M-UPS050AD1B
RRAB050AD1C-(B) ^{*2}	256×700×514	110	M-UPS050AD1C
RRAB050AD1S-U(B)-30	350×710×550	160	M-UPS050AD□S
RRAB050AD1S-U(B)-60	520×710×550	240	
RRAB075AD1S-U(B)-30	350×750×900	190	M-UPS075AD□S
RRAB075AD1S-U(B)-60		300	
RRAB100AD1S-U(B)-30 ^{*3}	350×750×1050	250	M-UPS100AD□S
RRAB100AD1S-U(B)-60 ^{*3}	520×750×1050	450	

*2: If there are 4 or more additional battery modules, they are subject to the Fire Prevention Ordinance. Installation in a dedicated room separated by noncombustible materials and notification to the competent fire department are required. Please take note of this.
*3: Subject to Fire Prevention Ordinance. Installation in a dedicated room separated by noncombustible materials and notification to the local fire department are required. Please be careful.

GX200 Series (1.5~3kVA)

Item		1.5kVA		3kVA		
Type ¹		M-UPS015AE2R-UC(B)	M-UPS015AE2S-UC(B)	M-UPS030AE2R-UC(B)	M-UPS030AE2B-UC(B) ²	M-UPS030AE2C-UC(B)
Operation Method		Dual-Conversion system with constant inverter				
AC Input	Rated Voltage	160-288V (wide input range)				
	No. of phases /No. of wires	Single-phase 2-wire				
	Frequency	50/60Hz ±5%				
	Maximum Input Current	7.5A		15A		
AC Output	Output Capacity	1.5kVA/1.2kW		3kVA/2.4kW		
	No. of phases /No. of lines	Single-phase 2-wire				
	Output Voltage	200/208/220/230/240V ±2%				
	Output Frequency	50/60Hz±0.1% (at backup)				
	Waveform	Sine wave				
	Power failure switching time	Uninterruptible				
	Direct feed bypass circuit	Relay switching: within 10 ms		Thyristor switching: uninterruptible		
Battery	Type	Small control valve type lead-acid battery				
	Backup time ³	5 min (load 1200W)		5 min (load 2400W)		
	Nominal Voltage	48V		96V		
	Battery Replacement	Replacement from front side				
Connection	Input	Terminal block (M4)	IEC60320-1 C14 ⁴	Terminal block (M4)		
	Output	Terminal block (M4)	IEC60320-1 C13 (8 pieces)	Terminal block (M4)		
Breaker capacity required for upper		10A or more		20A or more		
Card Slot		Standard interface card installed				
Standard Attachment		Rack attachment (EIA)		Rack attachment (EIA)	Fixing bracket	
Environmental Conditions	Ambient Temperature	0~+40°C				
	Relative Humidity	20 to 95% (no condensation)				
	Noise Level	50dB(A) or less		60dB(A) or less		
	Input impulse	UC product: 2kV (1.2×50μs)				
Cooling Method		forced air cooling				
External Dimensions (W x D x H) mm		437×520×87 (2U) ⁵	170×480×213	437×680×87 (2U) ⁵	172×480×410 ⁵	172×480×474 ⁵
Weight		26kg	24kg	42kg	47kg	48kg

*1: -U or -UC requires the specified input breaker.
*2: Rack mount attachments are sold separately.
*3: 1) Backup time is an actual value, not a guaranteed value. 2) Ambient temperature 25 °C, initial characteristics
*4: Attached input cable length: 1.8m, plug shape C type (C-3)
*5: Terminal block cover is not included.

Extension Battery Module Specifications

Type	Shape (Type)	Backup Time [min]					Dimensions W×D×H [mm]	Weight [kg]	UPS
		1 unit	2 unit	3 unit	4 unit	5 unit			
RRAB015AE2S-(B)	Self-standing	25	55	80	113	146	170×480×213	31.5	M-UPS015AE2S
RRAB015AE2R-(B)	Rack	25	55	80	113	146	437×520×87	32.5	M-UPS015AE2R
RRAB030AE2B-(B)	Both stand and rack	25	55	80	113	146	172×480×410	63.5	M-UPS030AE2B
RRAB030AE2C-(B)	With casters	25	55	80	113	146	172×480×474	64.5	M-UPS030AE2C
RRAB030AE2R-(B)	Rack	15	25	41	54	67	437×680×87	34	M-UPS030AE2R

Note: The backup time shown above is the time when the main unit's internal battery is combined. Backup time is an actual value, not a guaranteed value.

Attachment for 19-inch Rack Mount

Type	Applicable Model		Applicable 19-inch rack standard
	UPS	Extension Battery	
RRAK030C-E(B)	M-UPS030AE2B	RRAB030AE2B	EIA

GX200 Series (5~10kVA)

Item		5kVA		7.5kVA		10kVA	
Type*1	UL Recognized	M-UPS050AD2B-U(B)	M-UPS050AD2C-U(B)	M-UPS075AD2B-U(B)	M-UPS075AD2C-U(B)	M-UPS100AD2B-U(B)	M-UPS100AD2C-U(B)
	UL/CE compliant	M-UPS050AD2B-UC(B)	M-UPS050AD2C-UC(B)	M-UPS075AD2B-UC(B)	M-UPS075AD2C-UC(B)	M-UPS100AD2B-UC(B)	M-UPS100AD2C-UC(B)
Operation Method		Dual-Conversion system with constant inverter					
AC Input	Rated Voltage	160-288V (wide input range)					
	No. of phases /No. of wires	Single-Phase 2-wire					
	Frequency	50/60Hz±5%					
	Maximum Input Current	25A		37.5A		50A	
AC Output	Rated output capacity	5kVA/4kW		7.5kVA/6kW		10kVA/8kW	
	No. of phases /No. of lines	Single-phase 2-wire					
	Output Voltage	200/208/220/230/240V±2%					
	Output Frequency	50/60Hz±0.1% (at backup)					
	Waveform	Sine wave					
	Power failure switching time	Uninterruptible					
	Direct feed bypass circuit	Thyristor switching; uninterruptible					
Battery	Type	Small control valve type lead-acid battery					
	Backup time*2	5 min (load 4000W)		8 min (load 6000W)		5 min (load 8000W)	
	Nominal Voltage	192V					
	Battery Replacement	Replacement from front side					
External Connection	Input	Terminal block (M5)		Terminal block (M8)			
	Output	Terminal block (M5)		Terminal block (M8)			
Breaker capacity required for upper		40A or more		50A or more		75A or more	
Card Slot		Standard interface card installed					
Standard Attachment		Fixing bracket					
Environmental Conditions	Ambient Temperature	0~+40°C					
	Relative Humidity	20 to 95% (no condensation)					
	Noise Level	50dB(A) or less		60dB(A) or less			
Cooling Method		forced air cooling					
External Dimensions (W x D x H)*3 mm		130(3U)×708×434	130×708×514	256(6U)×771×434	256×771×514	256(6U)×771×434	256×771×514
Weight		63kg	69kg	127kg	133kg	127kg	133kg

*1: -U or -UC requires the specified input breaker.
*2: 1) Backup time is an actual value, not a guaranteed value. 2) Ambient temperature 25 °C, initial characteristics
*3: Terminal block cover is not included.

Extension Battery Module Specifications

Type	Shape (Type)	Backup Time [min]					Dimensions W×D×H [mm]	Weight [kg]	UPS
		1 unit	2 unit	3 unit	4 unit	5 unit			
RRAB050AD2B-(B)	For both stand and rack	25	50	75	100	140	130×701×434	84	M-UPS050AD2B
		20	35	50	70	90			M-UPS075AD2B
		15	25	35	48"1	60"1			M-UPS100AD2B

Attachment for 19-inch Rack Mount

Type	Applicable Model		Applicable 19-inch rack standard
	UPS	Battery	
RRAK030C-E(B)	M-UPS050AD2B	RRAB050AD2B	EIA
RRAK030C-E(B)	M-UPS075AD2B	-	EIA
	M-UPS100AD2B		

Note: The above backup times are based on the combination of the main unit's internal battery. Backup time is an actual value, not a guaranteed value.
*1: Subject to fire prevention ordinances, Install in a dedicated room separated by noncombustible material.