OMRON

Uninterruptible Power Supply (UPS/200-240V model)

An ideal UPS for building into industrial equipment



- Equipped with an LCD panel.
- Standard-feature automatic shutdown software compatible with the latest virtual operating systems.
- Standard-feature I/O terminal block, CE Marking, and UL certification
- Ideal for systems that require stability (standard-feature bypass function).
- Three-year product warranty includes the battery.



A Refer to Safety Precautions on page 11.

Ordering Information

Note: For details on normal stock models, contact your nearest OMRON representative.

Input voltage	Output voltage	Output current/capacity	Model
		2,000 VA/1,400 W	BU2002RWLG
200/208/220/230/240 VAC	200/208/220/230/240 VAC	3,000 VA/2,100 W	BU3002RWLG
		5,000 VA/3,500 W	BU5002RWLG

Replacement battery pack

Rated voltage	Rated capacity	Weight	Model	UPS Model : Required units
48 VDC	9 Ah	11 kg	BUB2002RW	BU2002RWLG : 1pcs
72 VDC	9 Ah	17 kg	BUB3002RW	BU3002RWLG : 1pcs BU5002RWLG : 2pcs

Ratings, Characteristics, and Functions

		BU2002RWLG	BU3002RWLG	BU5002RWLG						
Operation	method	Full-time inverter supply method (high efficiency)								
-	Rated input voltage	200/208/220/230/240 VAC								
	Startup voltage range	200 V mode: 160±2 to 288±2 VAC, 208 V mode: 167±2 to 278±2 VAC 220 V mode: 176±2 to 278±2 VAC, 230 V mode: 184±2 to 278±2 VAC 240 V mode: 192±2 to 278±2 VAC, 100 V mode: 160±2 to 288±2 VAC								
	Input voltage range	200 V mode: 170±2 to 278±2 V 220 V mode: 186±2 to 278±2 V 240 V mode: 202±2 to 278±2 V	AC, 208 V mode: 177±2 to 278 AC, 230 V mode: 194±2 to 278 AC, 100 V mode: 170±2 to 278	±2 VAC ±2 VAC ±2 VAC						
AC input	Input frequency	50/60 Hz±1, 3, 5, or 14% (5% in	n the factory settings)							
	Maximum current (at rated voltage/minimum input voltage)	9 A/11 A	14 A /16 A	23 A /27 A						
	Phase	Single-phase, two-wire (ground	ed)							
	Input plug	Terminal block		NEMA L6-30P / Terminal block						
	Input protection	NFB								
	Input protection capacity	16 A		30 A						
	Output capacity (upper limit)	2000 VA/1400 W (1000 VA/700 W in 100 V mode)	3000 VA/2100 W (1500 VA/1050 W in 100 V mode)	5000 VA/3500 W (2500 VA/1750 W in 100 V mode)						
	Rated current (output rating voltage)	10 A	15 A	25 A						
	Switching time	Uninterrupted								
	Commercial direct shipment (switching time)	Uninterrupted								
	Output voltage (commercial operation)	200 V mode: 200 VAC±2%, 200 220 V mode: 220 VAC±2%, 230 240 V mode: 240 VAC±2%, 100	8 V mode: 208 VAC±2% 0 V mode: 230 VAC±2% 0 V mode: 100 VAC±5%							
AC output	Output voltage (backup operation)	200 V mode: 200 VAC±2%, 200 220 V mode: 220 VAC±2%, 230 240 V mode: 240 VAC±2%, 100	8 V mode: 208 VAC±2% 0 V mode: 230 VAC±2% 0 V mode: 100 VAC±5%							
	Output frequency (commercial operation)	Synchronized with input frequency								
	Output frequency (backup operation)	50/60 Hz±0.5 Hz								
	Output waveform (In Commercial Power Mode/ Battery Mode)	Sine wave / Sine wave								
	Waveform distortion rate	7 % max. (Rectified load, at rate	ed output), 3 % max. (Resistand	e load, at rated output)						
	Phase	Single-phase, two-wire								
	Output receptacles	Terminal block		NEMA L6-30R × 2, terminal block						
	Sealed lead battery life expectancy	5 years (ultralong operating life) (ambient temperature 25•C)							
Battery	Battery capacity (V/Ah) (× Quantity)	12 VDC/ 9 Ah (× 4)	12 VDC/ 9 Ah (× 6)	12 VDC/ 9 Ah (× 12)						
	Charging time	8 hours								
Backup ti	me (25•C, initial characteristics)	5 min. (1400 W)	5 min. (2100 W)	5 min. (3500 W)						
Environ	Vibration resistance	10 to 55 Hz, half amplitude: 0.2 (Time coefficient: 2 min × coeffi	mm, X, Y and Z directions for 60 cient factor 30 = total time 60 m) minutes in)						
ment	Shock resistance	Free fall from 10 cm height with	standard direction, left side dov	wn and right side down						
Dimensio	ns (W × D × H mm)	430 × 660 × 88 (2U)		430 × 700 × 132 (3U)						
Weight of	unit	Approx. 28 kg	Approx. 33 kg	Approx. 61 kg						
Operating	environment temperature/humidity	0•C to 40•C, 25 to 85%RH with	no condensation							
Storage er	nvironment temperature/humidity	-15•C to 50•C, 10 to 90%RH (w	ith battery fully charged, stored	with no condensation)						
Noise reg	ulation	VCCI Class A compliant								
Insulation and	Withstand voltage 1,500 VAC between AC input/output and case 1,500 VAC between AC input/output and DC control 1,500 VAC between DC control and case for 1 minute at a leakage current of 20 mA maximum									
withstand voltage	Insulation resistance	20 M Ω minimum between AC ir 20 M Ω minimum between AC ir 20 M Ω minimum between DC c at 500 VDC	nput/output and case nput/output and DC control ontrol and case							
Safety sta	indard compliance	UL1778/CE/RoHS compliance								
Internal pov	ver consumption (normal/maximum)	70W *1 /145W *2	148W *1 /265W *2	249W *1 /480W *2						
Noise		45 dB max.		50 dB max.						
Cooling n	nethod	Forced air cooling								
Serial com	munication (RS-232C) (interface)	● (D-sub 9pin)								
Contact s	ignal (interface)	● (D-sub 9pin)								
Accessor	y functions	Language setting; LCD setting; LCD Auto OFF setting; LCD Test setting; Audible Alarm setting; Calendar setting; UPS Life Count setting; Output Voltage setting; Frequency Range setting; Auto Reboot setting; Delay Time setting; Power SW OFF setting; Dry Contact								

*1. Rated load/ Rated input voltage/ When fully charged.
*2. Rated load/ Rated input voltage/ When battery charge current is at maximum.

Connections

Block Diagrams



Nomenclature

Front view BU2002RWLG/BU3002RWLG



BU5002RWLG



Enlarged view of the operation panel



Α.	Power supply output lamp
В.	Battery mode lamp
C.	Battery replacement lamp
D.	LCD for status and setting display
E.	Power switch
F.	ESC switch
G.	Up switch
Н.	Down switch
١.	Enter switch

Rear view BU2002RWLG



BU3002RWLG





Α.	Option slot
В.	Contact signal port
C.	RS-232C port
D.	Cooling fan
E.	AC input terminal block
F.	AC output terminal block
G.	AC input overcurrent protection switch
H.	AC input cable
١.	AC output receptacle

Engineering Data

1. Convert the total capacity (power consumption) of the connected devices to watts (W).

For the indication of connected devices, check your computer and the rear of the display. The indicator can show values in three different ways: volt-amperes (VA), amperes (A), and watts (W).

Example 1) 200 VAC, 50/60Hz, 145 W	Indication	Value
Example 2) 200 VAC, 50/60Hz, 1.8 A	VA	× power factor = W
Example 5/ 200 VAC, 50/00112, 150 VA	Α	× power factor × power supply voltage = W

For devices that use the VA or A indication, convert the capacity into W. Multiply the value indicated on devices by the value in the right table for conversion.

(When the power factor is unknown, enter ì1î. The power factor usually ranges between 0.6 and 1.)

- 2. Add the values converted into W to obtain the total capacity of the connected devices.
- 3. Calculate the initial value of the backup time for the total capacity of the connected devices from the graph below.
 - Graph of backup time (graph of initial values for products that have not been used at 25•C)
 - The backup time becomes shorter than the graph (table) below when temperature is lower.
 - The smaller the capacity of connected devices becomes, the longer the backup time becomes.

Estimated backup time

Backup time (25°C, initial value) 160 140 BU5002RWLG



Backup time table

BU2002RWLG

Connection capacity (W)	20	50	100	200	300	400	600	800	1000	1200	1400
Backup time (Minutes)	360	190	110	60	39	27	16	12	9.5	7	5

BU3002RWLG

Connection capacity (W)	20	50	100	200	300	400	600	800	1000	1200	1400	1600	1800	2000	2100
Backup time (Minutes)	450	260	165	93	63	45	28	19	15	11	9	7.5	6	5.2	5

BU5002RWLG

Connection capacity (W)	20	50	100	200	300	400	600	800	1000	1200	1400	1600	1800	2000	2100	2700	3000	3500
Backup time (Minutes)	660	480	320	200	140	106	68	50	39	31	25	21	18	16	15	10	8	5

* These backup times are for reference only. Times may vary according to battery life and external environmental conditions (temperature, etc.).

(Time unit: minutes)

Dimensions

Main body

(Unit: mm)





Upright stand

BU2002RWLG/BU3002RWLG





Rubber feet

BU2002RWLG/BU3002RWLG







BUD002RWLG

Support angles

Rack rail



After rackmont installation



BU2002RWLG/BU3002RWLG





Safety Precautions

Warning Indications

Ŵ	arning	Indicates a potentially hazardous situation that, if not avoided, could result in serious injury or death. Additionally there may be significant property damage.
₫	aution	Indicates a potentially hazardous situation that, if not avoided, could result in minor or moderate injury or property damage.
Meaning c	of Produ	ct Safety Symbols
\bigcirc	General in Notice pro	nhibition phibiting an unspecified general action.
0	General in Notice ins	nstruction structing an unspecified general action.
	Do-not-dis Notice pro disassem accident a	sassemble prohibition ohibiting disassembly because bling the device may cause such an as an electric shock.
	Prohibitio such as a Notice pro locations made wate may occu	n of use in locations subject to water bathroom and shower room ohibiting installation of the device in subject to water, because if a device not er-proof is used in such locations, injury r due to an electric leak.
	Do-not-to Notice pro disassem accident a	uch prohibition bhibiting disassembly because bling the device may cause such an as an electric shock.

🕂 Warning

Do not use this unit when very high reliability and safety are required as listed below. This unit is designed and manufactured for use with FA or OA equipment such as personal computers.



- Medical equipment or system that may cause death directly.
- Applications that directly affect the safety of people (For example, the operation and control of cars).
- Applications in which a failure of the unit may cause significant damage to the society and public (For example, essential computer systems and main communication equipment.)
- Applications with the same level of importance.

▲ Caution

(for installation and connection)

Carry the unit considering its weight and balance, and place it on a stable and robust base.

- Dropping or toppling the unit may cause injury.
 The approximate weights of the units are 28kg (BU2002RWLG), 33kg (BU3002RWLG) and 61kg (BU5002RWLG).
- If you drop the unit, stop using it and have it inspected and repaired.
- For repair, contact OMRON representatives.

Do not hold the side of the front panel when lifting.

• Injury may result if the panel comes off and falls.



Keep plastic package bags out of reach of children.
Children may suffocate if they place their heads into plastic bags.

Make sure to connect the unitÅfs AC input plug to a commercial power source with rated input voltage (200/ 208/220/230/240VAC) and 50/60 Hz frequency.



- Connecting to a commercial power source with a different rated input voltage or frequency may result in a fire.
- The unit may fail.

For BU5002RWLG, when an abnormality (unusual sound or smell) occurs, disconnect the AC input plug from the wall outlet, or turn OFF the INPUT PROTECTION switch (input overcurrent protection switch) on the back of the unit. The socket-outlet shall be installed near the equipment and shall be easily accessible. For BU2002RWLG and BU3002RWLG, turn OFF the external breaker installed on the input side.

• When performing maintenance on the connected devices, follow the above instructions to ensure safety.

Do not connect devices such as dryers, some solenoid valves, etc., which have a half-wave rectifier that allows only half-cycle AC power to flow through.

Overcurrent may damage the UPS.

Connect the unit to a wall outlet (commercial power) with the appropriate capacity (11A or greater for BU2002RWLG, 16A or greater for BU3002RWLG and 27A or greater for BU5002RWLG).

- Otherwise, the power cord may be heated.
- When equipment with the maximum output capacity is connected, a maximum current of 11A (BU2002RWLG), 16A (BU3002RWLG), or 27A (BU5002RWLG) flows.

When changing the input cable, make sure to perform the connection as specified.

- When connecting a cable to the terminal block, use a cable that complies with the input current specification of the UPS.
- Failure to do so may result in electric shock or ground fault.

When in use, make sure the output terminal block cover is attached. Do not turn ON the power switch when it is detached.



 Voltage is applied to the output terminal block when the power switch is ON, which can result in electric shock.

Provide secure grounding.

• For AC input plug connection, connect the plug directly to a commercial power source. For terminal block connection, connect the cable to a commercial power source and ground it. A failure or leak that occurs when the unit is not properly grounded may result in electric shock.

Do not disassemble, repair, or modify the unit.

Doing so may cause an electric shock or a fire.

Do not install the unit in other than specified orientations.

- Dropping or toppling the unit may cause injury.
 If you install the unit in an orientation other than specified, the unit cannot be protected from a battery fluid leakage.
- Use the included vertical stand when positioning the unit vertically.







Do not use the unit where the maximum temperature exceeds 40•C.

• The battery deteriorates rapidly.

conditions during use/storage.

• Doing so may cause a failure or malfunction of the unit.



- Do not install or store the unit in the places listed below. • Do not store in places where the humidity is lower than 10% or higher than 90%.
- · Do not use the unit in places where the ambient temperature is lower than 0•C or higher than 40•C. (With no condensation)
- Do not use in places where the humidity is lower than 10% or higher than 90%
- · Do not install/store the unit in closed places such as cabinets with no clearance, places where there is flammable or corrosive gas, places with large amounts of dust, places exposed to direct sunlight, places exposed to shock or vibration, salty or wet places, or outdoors.
- Installation or storing the unit in such a place may cause a fire.

Do not connect equipment that exceeds the output capacity of the unit. You can use plug strip to connect additional devices, but do not connect devices that exceed the current capacity of the plug strip.

- · The current protection of the unit may operate, which may stop the output.
- The wiring of the plug strip heats up, which may cause a fire.

Do not pinch or sharply bend the cable.

Do not fold or knot the cable.



- · Doing so may cause the cable to be damaged or heated, which may cause an electric shock or a fire. · If the cable is damaged, stop using the unit and have
- the cable repaired. · For repair, contact OMRON representatives.



· Doing so may compromise the safety of devices.

Do not block the air vents (front and rear).

- · Doing so will cause the internal temperature to rise, which may cause the unit to fail and the battery to deteriorate.
- Leave at least 5 cm of space between the front vent and the wall, and at least 10 cm of space between the rear vent and the wall.

Do not connect devices that cannot be used with commercial power supply.

· When the unit's power switch is turned ON and an error occurs with the connected device, bypass operation is performed and commercial power supply is supplied as is to the connected devices.

When installing the unit on a rack, place it on the lower shelf.

· Injury may result if the unit falls.

Make sure to use the mounting screws included with the brackets.

- · Mounting screws other than those included may not be strong enough to support the unit, causing it to fall.
- · If you attach the case using long screws other than those included with the product, you may damage the internal parts of the unit.

When using the unit in the 100V output mode, check that the output voltage is set to 100V, and then turn ON the power switch.



- Connecting a 100V device to the unit while outputting in the 200V mode may cause a failure of the device or a fire.
- The output voltage can be set with "Settings" "In/Out Settings" - "Output Voltage" in the menu on the LCD.

(for use)

Do not allow the unit to come in contact with water. If you drop the unit, stop using it.

- Doing so may cause an electric shock or a fire.
- · If the unit becomes wet or is dropped, immediately stop using it, disconnect the AC input cable from commercial power and have the unit inspected and repaired.
- For repair, contact OMRON representatives.

When the battery is dead, replace it immediately or stop using the unit.

· Continuing the use of it may cause fire or electric shock due to liquid leaks.

Ambient temperature	Expected life
25•C	5 years
35•C	2.5 years

* The values in the table are the expected life under standard use conditions and are not guaranteed.

Using a dry cloth, periodically wipe the dust from the AC input plug, input terminal block and power supply output receptacles.

Accumulated dust may cause a fire.

Do not use the unit in a closed place and do not cover the unit.

- · Doing so may cause abnormal heating or a fire.
- · Depending on the operating environment, hydrogen gas may be generated from the battery, resulting in a rupture or explosion. Ventilate the area around the unit.

If you notice an abnormal sound or smell, smoke, or leaking fluid, immediately turn OFF the unit's power switch and stop the supply of commercial power.

- Using the unit under such conditions may cause a fire.
- If you notice such a condition, stop using the unit and contact OMRON representatives for inspection and repairs.
- Position the unit in such a way that you can immediately disconnect the AC input plug from the wall outlet (commercial power) in the event a problem occurs.

If fluid leaks from the unit, do not touch the fluid.

- Doing so may cause blindness or burns.
- · If the fluid contacts your eyes or skin, wash it out with lots of clean water and consult your doctor.

Do not place objects heavier than 25 kg on the unit, and do not drop heavy objects onto the unit.

- Doing so may cause distortion/damage to the case or a failure of the internal circuit, which may cause a fire.



















The unit is equipped with a bypath circuit which is able to supply electric power to connected devices even when the inner control circuit is broken down by defects or malfunctions.



- · Output is continuing even when all indicators of the front panel are off.
- · If you want to stop the output, either stop the source of commercial power or disconnect the AC input plug from the wall outlet (commercial power).

Do not sit or stand on top of the product, use it as a step ladder, or lean against it.

• Doing so may cause the unit to fail or to fall over and result in injury.

(for maintenance)

When maintaining the connected equipment, turn OFF the unit's power switch to stop the output, and stop the supply of commercial power.



• Even if commercial power to the UPS is stopped while it is in operation, the power output of this unit does not stop and power is supplied from the receptacle.

Do not disassemble, repair, or modify the unit.

· Doing so may cause an electric shock or a fire.



- · Doing so may cause blindness or burns.
- · If the fluid contacts your eyes or skin, wash it out with lots of clean water and consult your doctor.

Do not throw the unit into fire.

• The lead battery in the unit may explode, or leak dilute sulfuric acid.

Do not insert metal objects into the power supply output receptacle of the UPS.

Doing so may result in electric shock.

Do not insert metal objects into the battery connectors. Do not create a short between the connector terminals.



(for battery replacement)

(acid) leakage.

- Perform replacement on a stable and flat place.
- Handle the battery carefully so that you do not drop it. · Not doing so could cause injury or burns due to liquid

Use a specified battery for replacement.

- Not doing so may cause a fire.
- Replacement battery pack for BU2002RWLG: BUB2002RWG BU3002RWLG: BUB3002RWG BU5002RWLG: BUB3002RWG (2PCS.)

Do not replace the battery in a place where there is flammable gas.

· Spark may occur when connecting the battery, which may cause an explosion or fire.

If fluid (dilute sulfuric acid) leaks from the battery, do not touch the fluid.

- · Doing so may cause blindness or burns.
- · If it contacts your eyes or skin, wash it out with lots of clean water and consult your doctor.

Do not disassemble or modify the battery. · Doing so could cause dilute sulfuric acid leak, which could cause blindness and burns.

Do not drop the battery and do not expose it to strong impact.

· Dilute sulfuric acid may leak.

Do not short the battery with metal objects.

- Doing so could cause an electric shock, fire or burn. • Some electrical energy still remains inside the spent battery.
- Do not put the battery into fire and do not break it.
- The battery may explode or leak dilute sulfuric acid.

Do not use a new battery and an old battery at the same time.

• Dilute sulfuric acid may leak.

Precautions for Safe Use

When moving the unit from a cold place to a warm place, leave it for several hours before using it.

• If the unit is promptly turned ON after being moved to a warmer place, condensation may form inside the unit and cause it to fail.

Charge the battery soon after purchasing the unit.

- If you do not use the unit for a long time after the purchase, the battery may deteriorate and the battery may become unusable.
- The battery can be charged once the AC input plug is connected to commercial power.

Recharge the battery for at least 8 hours every 6 months when the storage temperature is 25•C or less, or every 2 months when the storage temperature is 40•C or less.

- The battery self-discharges even when it not being used, and it goes into over-discharge state if it is left for a long period of time. The backup time may become shorter or the battery may become unusable.
- We recommend keeping the temperature 25ÅãC or less when storing the unit for long periods of time.
- Turn OFF the unitÅfs power switch when storing it.

Do not short the output lines of the unit to each other, and do not short the output lines to the ground.

• The unit may fail.

Do not connect the AC input terminal of the unit to its Power Supply Output terminal during the Battery Mode.

• The unit may fail.

Do not connect a page printer (such as a laser printer) to the unit.

- The unit repeatedly and frequently switches between Commercial Power Mode and Battery Mode, which may shorten the life of the battery.
- The page printer has a large peak current, so an excess of the connection capacity or a power failure due to instantaneous voltage drop may be detected.

Do not install or store the unit in a place exposed to direct sunlight.

• The rise of temperature may cause the built-in battery to deteriorate rapidly and become unusable.

Do not perform withstand voltage tests.

- Performing withstand voltage tests may damage the surge absorption element built into the power supply input circuit.
- When performing an insulation resistance test, use the 400 VDC range.









Before stopping the commercial power to the unit, turn OFF the power switch of the unit.

• The unit enters Battery Mode when commercial power is stopped. If you frequently use the unit in Battery Mode, the battery life may be significantly shortened.

If this unit is used for an inductive device such as a coil or motor, check the operation beforehand.

· With some types of devices, the effect of inrush current may cause this unit to stop operating properly.

Check system operation beforehand if the unit is used in combination with a device whose power supply voltage and frequency fluctuate widely, such as a generator.

- If the generatorÅfs output voltage/frequency falls out of the input voltage/frequency range, the unit will enter Battery Mode.
- Even if the input frequency is within the range, the unit will enter Battery Mode when a rapid change (5 Hz/sec or greater) occurs.

In the event you transfer or sell this unit to a third party, please include all of the documentation that came with the unit. This is to ensure that the unit is used in line with the conditions described in the included documentation

• This manual contains important safety-related information. Please read and understand the contents of the manual before beginning operation.

This unit uses lead acid batteries,



Take measures for handling unforeseen accidents, such as data backup and system redundancy.

Which are a valuable recyclable resource. Please

• The output may stop when there is a circuit failure in the UPS.

Precautions for Correct Use

Usual operation

recycle.

- · You may either leave the power switch of the unit ON (operation status) or turn it OFF each time when stopping the connected system. Choose whichever operation method is more convenient. We recommend turning OFF the power switch when you do not use connected devices for a long time.
- The battery can be charged once the unit is connected to a commercial power source.

Quitting Battery Mode

 If a power failure lasts for an extended period of time, the battery discharges completely and power output from the unit stops. Shut down your computer after performing appropriate procedures (for example, saving data) while the unit is still supplying power.

Rebooting

 If the battery discharges completely during a power failure, the output stops. After recovery from the power failure, the unit automatically restarts and output begins. If you do not want to restart the connected devices, disable the ÅgSettingsÅh - ÅgBoot SettingsÅh - ÅgAuto rebootÅh setting in the menu on the unitÅfs LCD, or turn OFF the power switch of the connected devices.

Scheduled operation using the UPS monitoring software

- When performing scheduled operation in which the UPS is stopped and a device such as a breaker is used to stop the UPS at the same time that commercial power stops, specify a period of no more than 3 months for the start of the next operation.
- If you specify a period longer than 3 months, the internal timer is reset and the scheduled operation does not start. Note that this period reduces to approximately half when the battery needs to be replaced. If a period of 3 months is exceeded, you start operation by supplying commercial power and pressing the start switch. However, if the battery needs to be replaced, you may not be able to start operation.
- In this case, replace the battery.

Installation Method

Do not use this unit in any position other than the icorrect positionsi indicated in the illustration below.

- Note: Before installing this device, make a record of the serial number of this device.
 - The product serial number is required when contacting us about the device.
 - The serial number (S/N) is inscribed on the bottom left side of the rear panel.

The product serial number is inscribed on the bottom left side of the rear panel. The product serial number label is also included.





Rackmount installation (EIA /JIS 19-inch rack/server rack)

Caution

When performing rack installation, ensure that the UPS is supported and stabilized by using both the support angles and the table clamps that were included.



- · When installing on a rack, make sure that the UPS is supported by the each unit individually.
- When installing on a rack, make sure to use the support angles and table clamps included with the product. Without the support angles, the front clamp alone cannot support the weight of the UPS.
- The mass of each unit: BU2002RWLG: Approx. 28kg BU3002RWLG: Approx. 33kg BU5002RWLG: Approx. 61kg

In a case where the UPS is to be mounted on a rack. place it on the lower part of the rack. · Dropping it may result in injury.

Be sure to use the supplied mounting screws.

- · Use of long screws other than those supplied for case mounting may damage inside the unit.
- Screws other than those supplied may not be strong enough to support the UPS, causing it to fall.

Items included in the 19-inch rack support angle mounting bracket set

Rack rail (front) L/R 1 each Rack rail (rear) L/R 1 each Unit guide rail L/R 1 each Ear bracket L/R 1 each Spacers 2	
Bracket mounting screws (M4) 10	Ŷ
EIA/JIS rack fixing screws (M5) 10	Ŷ
EIA rack fixing nuts (M5) 10	Ø

Rack mounting procedure

1. Insert the 2 included bracket mounting screws (M4) and halftighten them to hold the front and rear rack rails in place. (1) There are two types of front and rear rack rails: left (L) and right (R).



- 2. Adjust the length of support angles to suit the server rack, and then securely tighten the screws that were half-tightened in step 1. (2)
- 3. For EIA standard-compliant installation, use the included EIA rack fixing nuts (M5) and EIA/JIS rack fixing screws (M5) to securely fasten the front and the back of the rack rails to the server rack. (3) The screw hole positions are as follows.
 - EIA rack: Topmost one for the front, topmost and bottommost ones for the rear
 - JIS rack: One at the second from the bottom for both front and rear



4. Use the 8 included bracket fixing screws (M4) (2 sets of 4 screws) to securely fasten the ear brackets and unit guide rails to the left and right sides of the UPS. (4)

(Installation is possible without removing the handles on the sides of BU5002RWLG; do not remove them.)



The support angles cannot be attached to special EIA/JIS racks.

- 1. Place the UPS on the support angles and push it completely into the rack (5), and use the included EIA/JIS rack fixing screws (M5) and spacers to securely fasten the ear brackets to the server rack. (6) The screw hole positions are as follows.
 - EIA rack: Topmost and bottommost ones on the front
 - JIS rack: One at the second from the top on the front



Always use the support angles.

Note: The batteries for BU5002RWLG are in a separate package. Attach the batteries to the unit before installation.

Stationary installation

Perform installation only as shown in the diagrams below. Horizontal installation

- Attach the included rubber feet for horizontal installation with the included M3 screws and position the unit horizontally.
- For stationary horizontal installation, make sure that this product does not slide or fall.

(Installation is possible without removing the handles on the sides of BU5002RWLG; do not remove them.)

	0	

15 OMRON

Upright installation

 Upright installation Use the upright stands included with the product. Attach the two upright stands (front and back) for BU2002RWLG and BU3002RWLG, and three (front, center, and back) for BU5002RWLG with the included screws. Keep a space of 250 mm or more above the UPS. (Installation is possible without removing the handles on the sides of BU5002RWLG; do not remove them.)



Note: The batteries for BU5002RWLG are in a separate package. Attach the batteries to the unit before installation.

МЕМО

МЕМО

Terms and Conditions Agreement

Read and understand this catalog.

Please read and understand this catalog before purchasing the products. Please consult your OMRON representative if you have any questions or comments.

Warranties.

(a) Exclusive Warranty. Omron's exclusive warranty is that the Products will be free from defects in materials and workmanship for a period of twelve months from the date of sale by Omron (or such other period expressed in writing by Omron). Omron disclaims all other warranties, express or implied.

(b) Limitations. OMRON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCTS. BUYER ACKNOWLEDGES THAT IT ALONE HAS DETERMINED THAT THE PRODUCTS WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE.

Omron further disclaims all warranties and responsibility of any type for claims or expenses based on infringement by the Products or otherwise of any intellectual property right. (c) Buyer Remedy. Omron's sole obligation hereunder shall be, at Omron's election, to (i) replace (in the form originally shipped with Buyer responsible for labor charges for removal or replacement thereof) the non-complying Product, (ii) repair the non-complying Product, or (iii) repay or credit Buyer an amount equal to the purchase price of the non-complying Product; provided that in no event shall Omron be responsible for warranty, repair, indemnity or any other claims or expenses regarding the Products unless Omron's analysis confirms that the Products were properly handled, stored, installed and maintained and not subject to contamination, abuse, misuse or inappropriate modification. Return of any Products by Buyer must be approved in writing by Omron before shipment. Omron Companies shall not be liable for the suitability or unsuitability or the results from the use of Products in combination with any electrical or electronic components, circuits, system assemblies or any other materials or substances or environments. Any advice, recommendations or information given orally or in writing, are not to be construed as an amendment or addition to the above warranty.

See http://www.omron.com/global/ or contact your Omron representative for published information.

Limitation on Liability; Etc.

OMRON COMPANIES SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCTS, WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, NEGLIGENCE OR STRICT LIABILITY.

Further, in no event shall liability of Omron Companies exceed the individual price of the Product on which liability is asserted.

Suitability of Use.

Omron Companies shall not be responsible for conformity with any standards, codes or regulations which apply to the combination of the Product in the Buyer's application or use of the Product. At Buyer's request, Omron will provide applicable third party certification documents identifying ratings and limitations of use which apply to the Product. This information by itself is not sufficient for a complete determination of the suitability of the Product in combination with the end product, machine, system, or other application or use. Buyer shall be solely responsible for determining appropriateness of the particular Product with respect to Buyer's application, product or system. Buyer shall take application responsibility in all cases.

NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY OR IN LARGE QUANTITIES WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT(S) IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

Programmable Products.

Omron Companies shall not be responsible for the user's programming of a programmable Product, or any consequence thereof.

Performance Data.

Data presented in Omron Company websites, catalogs and other materials is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of Omron's test conditions, and the user must correlate it to actual application requirements. Actual performance is subject to the Omron's Warranty and Limitations of Liability.

Change in Specifications.

Product specifications and accessories may be changed at any time based on improvements and other reasons. It is our practice to change part numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the Product may be changed without any notice. When in doubt, special part numbers may be assigned to fix or establish key specifications for your application. Please consult with your Omron's representative at any time to confirm actual specifications of purchased Product.

Errors and Omissions.

Information presented by Omron Companies has been checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical or proofreading errors or omissions.

OMRON Corporation **Industrial Automation Company** Kyoto, JAPAN

Contact: www.ia.omron.com

Regional Headquarters OMRON EUROPE B.V. Wegalaan 67-69, 2132 JD Hoofddorp The Netherlands Tel: (31)2356-81-300/Fax: (31)2356-81-388

OMRON ASIA PACIFIC PTE. LTD. No. 438A Alexandra Road # 05-05/08 (Lobby 2), Alexandra Technopark, Singapore 119967 Tel: (65) 6835-3011/Fax: (65) 6835-2711

OMRON ELECTRONICS LLC 2895 Greenspoint Parkway, Suite 200 Hoffman Estates, IL 60169 U.S.A. Tel: (1) 847-843-7900/Fax: (1) 847-843-7787

OMRON (CHINA) CO., LTD. Room 2211, Bank of China Tower, 200 Yin Cheng Zhong Road, PuDong New Area, Shanghai, 200120, China Tel: (86) 21-5037-2222/Fax: (86) 21-5037-2200

Authorized Distributor:

© OMRON Corporation 2015-2016 All Rights Reserved. In the interest of product improvement, specifications are subject to change without notice.

Cat. No. U704-E1-02