

# SANUPS A11K-Li

## Lithium-ion Battery UPS

Ver.5.5  
English



# SANUPS A11K-Li

Double Conversion Online UPS with Lithium-ion Batteries



UPS unit  
**3-year**  
warranty

Lineup:

[No. of phases/wires] Input/Output voltage	Output capacity		Battery backup time		I/O connection	UL certification	Order no.	Page	
	[kVA]	[kW]	Load power factor 0.8	Load power factor 0.7				Specifications	Dimensions
[Single-phase 2-wire] <b>100 V</b> model 100/110/120 V	1	0.8	13 min	15 min	Outlet	—	S-A11KL102B0013SSN00 <sup>(1)</sup>	p.5	p.8
			✓	S-A11KL102C0013UJ <sup>(1)</sup>		p.10	p.11		
	1.5	1.2	8 min	10 min	Outlet	—	S-A11KL152B0008SSN00 <sup>(1)</sup>	p.5	p.8
			✓	S-A11KL152C0008UJ <sup>(1)</sup>		p.10	p.11		
			19 min	20 min		—	S-A11KL152B0019SSN00 <sup>(1)</sup>	p.5	p.8
			100 min	110 min		—	S-A11KL152B0100TSN00 <sup>(1)</sup>	p.13	p.14
			200 min	220 min		—	S-A11KL152B0200TSN00□□ <sup>(2)</sup>		
			300 min	330 min		—	S-A11KL152B0300TSN00□□ <sup>(2)</sup>		
			400 min	440 min		—	S-A11KL152B0400TSN00□□ <sup>(2)</sup>		
			500 min	550 min		—	S-A11KL152B0500TSN00	p.13	p.15
			600 min	660 min		—	S-A11KL152B0600TSN00		
			2	1.6		15 min	16 min	Outlet/terminal block	—
	3	2.4	9 min	10 min	Outlet/terminal block	—	S-A11KL302B0009SS□□ <sup>(1)</sup>	p.7	p.9
			19 min	20 min		—	S-A11KL302B0019SS□□ <sup>(1)</sup>		
			50 min	55 min		—	S-A11KL302B0050TS□□ <sup>(1)</sup>	p.13	pp.16, 18
			100 min	110 min		—	S-A11KL302B0100TS□□□□ <sup>(2)</sup>		
			150 min	165 min		—	S-A11KL302B0150TS□□□□ <sup>(2)</sup>		
			200 min	220 min		—	S-A11KL302B0200TS□□□□ <sup>(2)</sup>		
			250 min	275 min		—	S-A11KL302B0250TS□□	p.13	pp.17, 19
			300 min	330 min		—	S-A11KL302B0300TS□□		
	5	4	11 min	12 min	Terminal block	—	S-A11KL502B0011SST00 <sup>(1)</sup>	p.7	p.9
			30 min	32 min		—	S-A11KL502B0030TST00 <sup>(1)</sup>	p.13	p.20
			60 min	64 min		—	S-A11KL502B0060TST00□□ <sup>(2)</sup>		
			90 min	96 min		—	S-A11KL502B0090TST00□□ <sup>(2)</sup>		
120 min			128 min	—		S-A11KL502B0120TST00□□ <sup>(2)</sup>	p.13	p.21	
150 min			160 min	—		S-A11KL502B0150TST00			
180 min			192 min	—		S-A11KL502B0180TST00			

(1) Vertical (free-standing)/rack-mount convertible (2) Free-standing or rack-mount type can be selected.

## Installation examples



### Mountable in an EIA standard 19-inch rack

Rack support rails are optional.



### Vertical installation

You can change the orientation of the LCD panel. Refer to the specifications for installation accessories such as vertical stands and floor mounting brackets.

## Wide Operating Temperature Range

- The A11K-Li achieves an operating temperature range as wide as -20 to +55°C. It can be used with confidence even in harsh cold or hot environments.

## Space-Saving

- The volume of the 30-minute backup model is about half of our conventional products,<sup>(1)</sup> and it can be installed in a smaller space.

## Reduced Maintenance Work

- Our conventional UPSs<sup>(1)</sup> using lead-acid batteries require battery replacement about every 5 years.
- Thanks to Li-ion batteries, this UPS doesn't require battery replacement for 10 years.<sup>(2)</sup> Thus, the cost of battery replacement can be reduced.

(1) Conventional UPS: A11K (with lead-acid batteries)

(2) At 30°C ambient temperature

## Wide Input Range

- Its input voltage ranges from -40% to +20% of the rated voltage when the load level is less than 70%.
- Battery drain can be minimized even in unstable power environments.

## Compatible with High Power Factor Loads

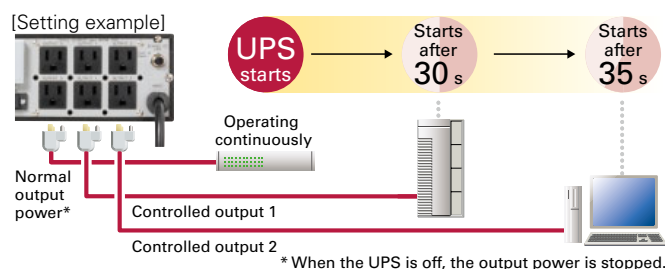
- With a 0.8 load power factor, the A11K-Li is capable of providing its power to loads with a high power factor.

Output capacity 1.5 kVA → **1.2 kW**

## Easy and Reliable Sequential System Start and Stop

- The timing of power on and shutdown of hard drives or servers can be easily scheduled. (This only applies to models with a backup time of 19 minutes or less)

Settings can be done with an outlet box; it comes built-in for 1 and 1.5 kVA models, and optional for 2 and 3 kVA models.



## Easy Maintenance

- An inverter module is removable from the front of a UPS unit for easy maintenance.
- Its built-in maintenance bypass circuit allows maintenance to be performed while maintaining inverter power supply.

## SANUPS SOFTWARE STANDALONE

A free software program (Windows version) that enables the power management from computers is available for download from our website.

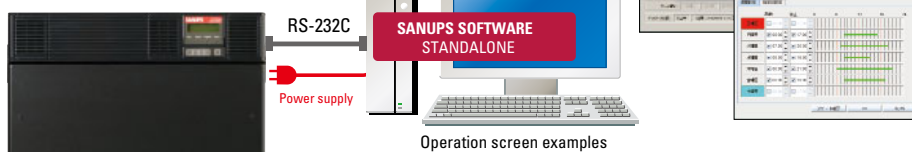
UPS status can be checked at a glance from a PC or server.

Note: This software can only be used on computers in serial connection with UPS.

For power management via a network, we have optional network solutions available.

### Main functions

- Automatic start-up/shutdown of computers
- Scheduled operation
- UPS status display
- Message display
- UPS event log



## Battery Cold Start Function

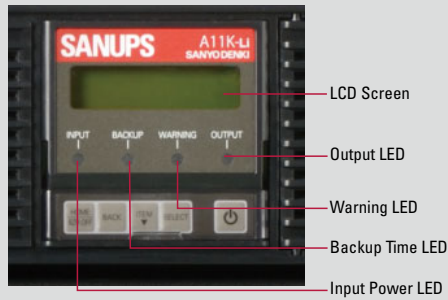
Batteries can start up the UPS even when grid AC power is not available, enabling inverter operation.

With this function enabled, the UPS can be used as an emergency power supply in the event of a natural disaster or emergency.

Note that the function is disabled by default.

Views and Part Names

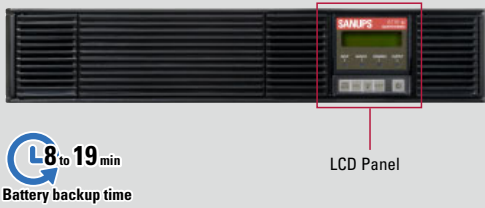
LCD Panel



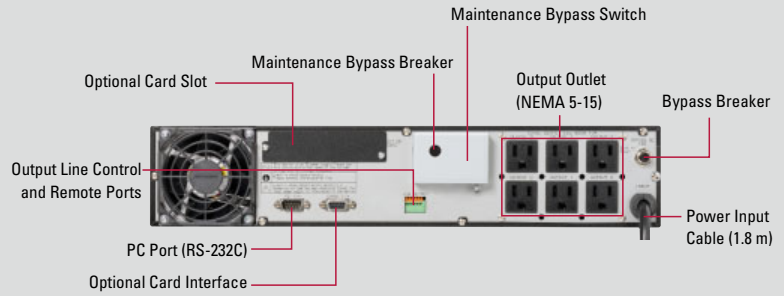
Sliding Button Cover Opened (slides up/down)



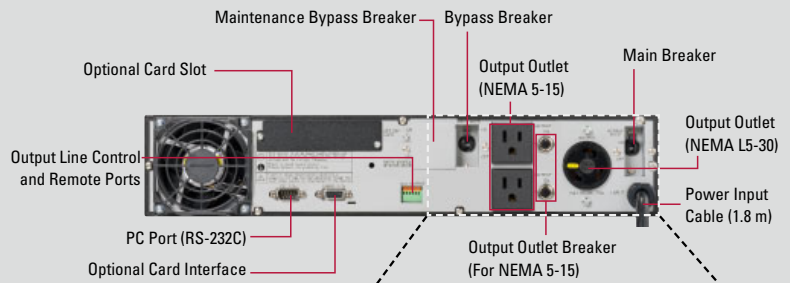
1, 1.5, 2 kVA, Front View



1, 1.5 kVA, Rear View



2 kVA, Rear View



2 kVA Terminal Block Type, Rear View

Model: S-A11KL202B0015SST00



Note: The photos above may look different from the actual products in the printed text, etc.

## Specifications

Output capacity **1 to 2 kVA**Battery backup time **8 to 19 min**

Order no.	S-A11KL102B0013SSN00		S-A11KL152B0008SSN00		S-A11KL152B0019SSN00		S-A11KL202B0015SS□00		
Rated output capacity (apparent power / active power)	1 kVA / 0.8 kW		1.5 kVA / 1.2 kW		2 kVA / 1.6 kW				
Technology	Topology	Double conversion online							
	Rectifier	High power factor converter							
	Cooling method	Forced air cooling							
	Inverter	High-frequency PWM							
AC input	No. of phases/wires	Single-phase 2-wire <sup>(1)</sup>							
	Rated voltage	100/110/120 V (Same as output voltage)							
	Voltage range	At load level < 70%: Within -40 to +20% of rated voltage (-40% becomes -20% for recovery voltage) At load level ≥ 70%: Within ± 20% of rated voltage							
	Rated frequency	50/60 Hz (auto-sensing <sup>(2)</sup> )							
	Frequency range	Within ± 1, 3, 5, or 7% of rated frequency (same as output frequency regulation)							
	Required capacity <sup>(3)</sup>	1.1 kVA	1.5 kVA	2.0 kVA					
	Input power factor	0.95 or greater	0.95 or greater	0.97 or greater					
	AC output	No. of phases/wires	Single-phase 2-wire						
Rated voltage		100/110/120 V (User-selectable. Factory setting: 100 V)							
Rated current		10 A	15 A	20 A					
Voltage regulation		Within ± 2% of rated voltage (at rated output)							
Rated frequency		50/60 Hz (Same as the input rated frequency)							
Frequency regulation		During grid operation	Within ± 1, 3, 5, or 7% of the rated frequency (User-selectable. Factory setting: ± 3%)						
		During battery operation	Within ± 0.5% of rated frequency						
Output waveform		Pure sine wave							
Voltage harmonic distortion		At linear load	3% or less (At rated output)						
		At rectifier load	7% or less (At rated output)						
Load power factor		Rated	0.8 lagging (Variation range: 0.7 lagging to 1.0)						
Transient voltage fluctuation		For abrupt load change	Within ± 5% of rated voltage (For 0 ⇔ 100% load step changes at rated input)						
		For loss or return of input power	Within ± 5% of rated voltage (At rated output)						
		For abrupt input voltage change	Within ± 5% of rated voltage (For ± 10% abrupt change)						
Overcurrent protection		Automatic transfer to bypass (With automatic retransfer function)							
Overload capability	Inverter	105% (for 200 ms)							
	Bypass	200% (for 30 s), 800% (for 2 cycles)							
Output Line Control	Yes						An optional outlet box is required		
Battery	Type	Lithium-ion battery							
	Battery backup time <sup>(4)</sup>	Initial value	13 min (15 min)	8 min (10 min)	19 min (20 min)	15 min (16 min)			
		After 10 years <sup>(5)</sup>	11 min (12 min)	6 min (8 min)	16 min (17 min)	12 min (13 min)			
Battery self-test	Settings possible (Factory setting: "disabled")								
Interface	PC port	RS-232C							
	Remote port	Remote ON/OFF switch (can control up to 5 UPS units in Linked Operation using a dedicated connection cable)							
	Auxiliary port	Output Line Control contact <sup>(6)</sup>							
	Dry contact	Optional dry contact interface card is required							
	Network support	Optional LAN interface card is required							
Acoustic noise	During normal operation	41 dB		45 dB			45 dB		
	During battery operation or at a temperature above 40°C	51 dB		51 dB			51 dB		
Heat dissipation (At rated operation, after battery charging completed)	82 W		127 W			153 W			
Input leakage current	3 mA		3 mA			3 mA			
Operating environment	Ambient temperature: -20 to +55°C, <sup>(7)</sup> humidity: 10 to 90% RH (non-condensing)								
Storage environment <sup>(8)</sup>	Temperature: -20 to +55°C, humidity: 10 to 90% RH (non-condensing)								
Expected service life (of the UPS unit excluding battery)	10 years (At a 30°C average ambient temperature. For reference purposes only.)								
EMC standard	Compliant with VCCI 32-1 Class A								
Separate options									
Outlet box <sup>(9)</sup>	—						P10030B (outlet type), P10035B (terminal block type)		
Rack support rails <sup>(10)</sup>	RM030-US (2U)								
Floor mounting brackets <sup>(11)</sup>	FMA11KA00								
Caster base <sup>(12)</sup>	CBA11KA01								
Air filter kit <sup>(13)</sup>	FL008-3								

(1) If single-wire grounding the AC input and output, set the input/output ground phase according to the UPS specification. The W (N) terminal of AC input (S phase) and the W (N) terminal of AC output (V phase) are to be grounded.

(2) The inverter synchronizes operation with AC input and allows uninterrupted transfer through a bypass circuit provided that the AC input frequency is within a range of the rated frequency ±3% (1, 3, 5, or 7% selectable) and the AC input voltage is within the rated voltage ±20% (if the load level is less than 70%: between -40% and +20%).

(3) Max. capacity during battery recovery charging

(4) At 25°C ambient temperature and load power factor of 0.8, using new, fully charged batteries. In parentheses are values at 0.7 load power factor.

(5) Assuming 10 power outages per year

(6) For 2 kVA models, settings can be done with an optional outlet box.

(7) When the battery temperature exceeds 55°C, battery charging will stop and a Device Error (minor malfunction) will be generated to warn the faulty battery temperature.

(8) Avoid use or storage in 30°C or higher temperatures for extended periods of time, or the battery's life will be shortened. If a UPS is to be stored for a long period, it will be necessary to recharge batteries once every six months.

(9) Enables Output Line Control, the coordinated on/off management of UPS outlets. "Output 0" is normal output; "Output 1 (and 2)" is controlled output.

Note that its operating temperature range is different from that of the UPS.

(10) Used for mounting the UPS on a standard 19-inch rack. Prior to purchase, check that the rails are mountable to your 19-inch rack.

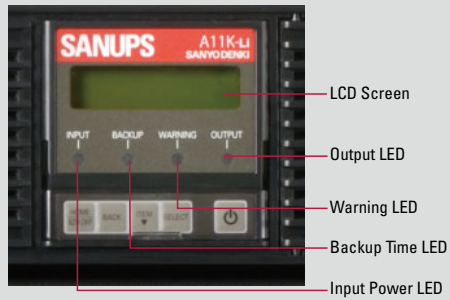
(11) Used to secure a free-standing type UPS to the floor.

(12) Used to carry a vertically-installed UPS.

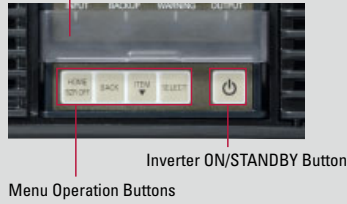
(13) A front side air intake filter for preventing dust ingress.

Views and Part Names

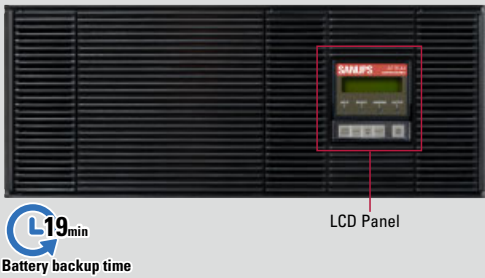
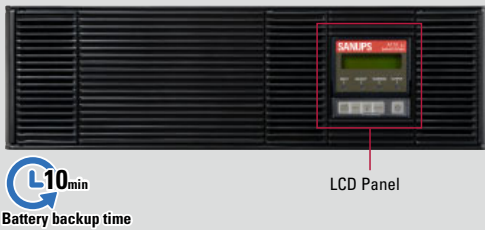
LCD Panel



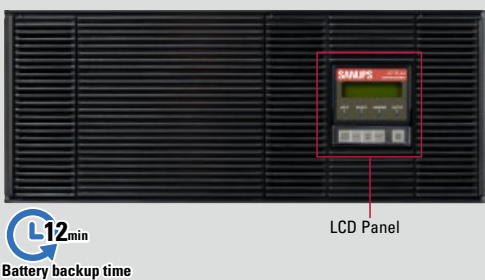
Sliding Button Cover Opened (slides up/down)



3 kVA, Front View

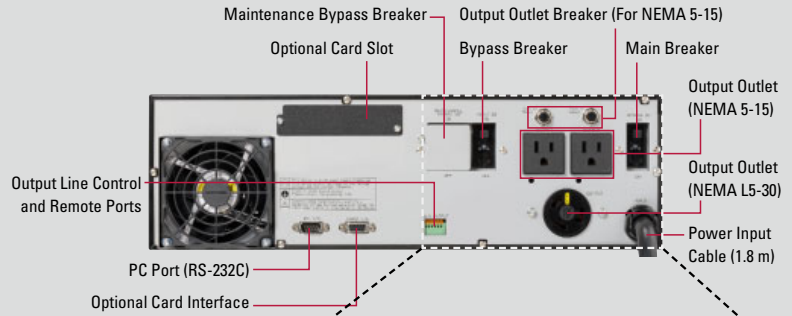


5 kVA, Front View



3 kVA, Rear View

Model: S-A11KL302B0009SSN00



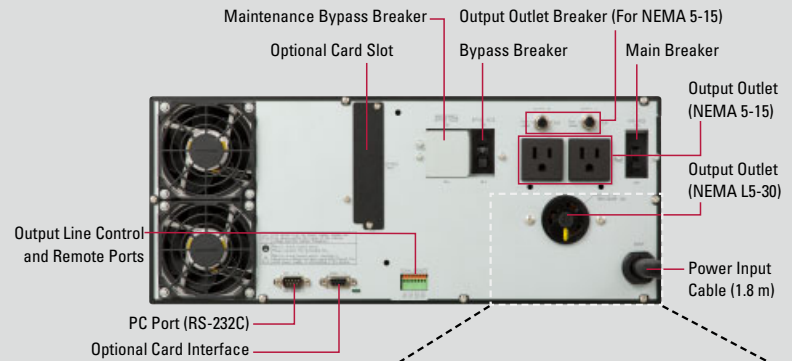
Terminal Block Type, Rear View

Model: S-A11KL302B0009SST00



3 kVA, Rear View

Model: S-A11KL302B0019SSN00

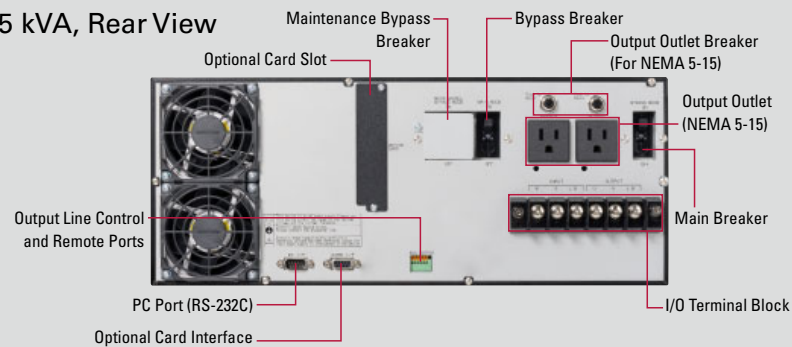


Terminal Block Type, Rear View

Model: S-A11KL302B0019SST00



5 kVA, Rear View



Note: The photos above may look different from the actual products in the printed text, etc.

## Specifications

Output capacity **3 kVA, 5 kVA**Battery backup time **10 to 19 min**

Order no.	S-A11KL302B0009SS□00		S-A11KL302B0019SS□00	S-A11KL502B0011ST00
Rated output capacity (apparent power / active power)	3 kVA / 2.4 kW		5 kVA / 4 kW	
Technology	Topology	Double conversion online		
	Rectifier	High power factor converter		
	Cooling method	Forced air cooling		
	Inverter	High-frequency PWM		
AC input	No. of phases/wires	Single-phase 2-wire <sup>(1)</sup>		
	Rated voltage	100/110/120 V (Same as output voltage)		
	Voltage range	At load level < 70%: Within -40 to +20% of rated voltage (-40% becomes -20% for recovery voltage) At load level ≥ 70%: Within ±20% of rated voltage		
	Rated frequency	50/60 Hz (auto-sensing <sup>(2)</sup> )		
	Frequency range	Within ±1, 3, 5, or 7% of rated frequency (same as output frequency regulation)		
	Required capacity <sup>(3)</sup>	3.0 kVA	5.3 kVA	
	Input power factor	0.97 or greater		0.97 or greater
	AC output	No. of phases/wires	Single-phase 2-wire	
Rated voltage		100/110/120 V (User-selectable. Factory setting: 100 V)		
Rated current		30 A	50 A	
Voltage regulation		Within ±2% of rated voltage (at rated output)		
Rated frequency		50/60 Hz (Same as the input rated frequency)		
Frequency regulation		During grid operation	Within ±1, 3, 5, or 7% of the rated frequency (User-selectable. Factory setting: ±3%)	
		During battery operation	Within ±0.5% of rated frequency	
Output waveform		Pure sine wave		
Voltage harmonic distortion		At linear load	3% or less (At rated output)	
		At rectifier load	7% or less (At rated output)	
Load power factor		Rated	0.8 lagging (Variation range: 0.7 lagging to 1.0)	
Transient voltage fluctuation		For abrupt load change	Within ±5% of rated voltage (For 0↔100% load step changes at rated input)	
		For loss or return of input power	Within ±5% of rated voltage (At rated output)	
		For abrupt input voltage change	Within ±5% of rated voltage (For ±10% abrupt change)	
Overcurrent protection	Automatic transfer to bypass (With automatic retransfer function)			
Overload capability	Inverter	105% (for 200 ms)		
	Bypass	200% (for 30 s), 800% (for 2 cycles)		
Output Line Control	An optional outlet box is required		Contact us	
Battery	Type	Lithium-ion battery		
	Battery backup time <sup>(4)</sup>	Initial value	9 min (10 min)	19 min (20 min)
		After 10 years <sup>(5)</sup>	6 min (8 min)	16 min (17 min)
	Battery self-test	Settings possible (Factory setting: "disabled")		
Interface	PC port	RS-232C		
	Remote port	Remote ON/OFF switch (can control up to 5 UPS units in Linked Operation using a dedicated connection cable)		
	Auxiliary port	Output Line Control contact <sup>(6)</sup>		
	Dry contact	Optional dry contact interface card is required		
	Network support	Optional LAN interface card is required		
Acoustic noise	During normal operation	46 dB	46 dB	
	During battery operation or at a temperature above 40°C	55 dB	55 dB	
Heat dissipation (At rated operation, after battery charging completed)	254 W	421 W		
Input leakage current	3.5 mA	3.5 mA		
Operating environment	Ambient temperature: -20 to +55°C, <sup>(7)</sup> humidity: 10 to 90% RH (non-condensing)			
Storage environment <sup>(8)</sup>	Ambient temperature: -20 to +55°C, humidity: 10 to 90% RH (non-condensing)			
Expected service life (of the UPS unit excluding battery)	10 years (At a 30°C average ambient temperature. For reference purposes only.)			
EMC standard	Compliant with VCCI 32-1 Class A			
Separate options				
Outlet box <sup>(9)</sup>	P10030B (outlet type), P10035B (terminal block type)		—	
Rack support rails <sup>(10)</sup>	RM027-US (3U)	RM028-US (4U)		
Floor mounting brackets <sup>(11)</sup>	—			
Caster base <sup>(12)</sup>	CBA11KA01	CBA11KA02		
Air filter kit <sup>(13)</sup>	FL009-3	FL010-3		

(1) If single-wire grounding the AC input and output, set the input/output ground phase according to the UPS specification. The W (N) terminal of AC input (S phase) and the W (N) terminal of AC output (V phase) are to be grounded.

(2) The inverter synchronizes operation with AC input and allows uninterrupted transfer through a bypass circuit provided that the AC input frequency is within a range of the rated frequency ±3% (1, 3, 5, or 7% selectable) and the AC input voltage is within the rated voltage ±20% (if the load level is less than 70%: between -40% and +20%).

(3) Max. capacity during battery recovery charging

(4) At 25°C ambient temperature and load power factor of 0.8, using new, fully charged batteries. In parentheses are values at 0.7 load power factor.

(5) Assuming 10 power outages per year

(6) For 3 kVA models, settings can be done with an optional outlet box.

(7) When the battery temperature exceeds 55°C, battery charging will stop and a Device Error (minor malfunction) will be generated to warn the faulty battery temperature.

(8) Avoid use or storage in 30°C or higher temperatures for extended periods of time, or the battery's life will be shortened. If a UPS is to be stored for a long period, it will be necessary to recharge batteries once every six months.

(9) Enables Output Line Control, the coordinated on/off management of UPS outlets. "Output 0" is normal output; "Output 1 (and 2)" is controlled output.

Note that its operating temperature range is different from that of the UPS.

(10) Used for mounting the UPS on a standard 19-inch rack. Prior to purchase, check that the rails are mountable to your 19-inch rack.

(11) Used to secure a free-standing type UPS to the floor.

(12) Used to carry a vertically-installed UPS.

(13) A front side air intake filter for preventing dust ingress.

**Dimensions**

Output capacity **1 to 2 kVA**

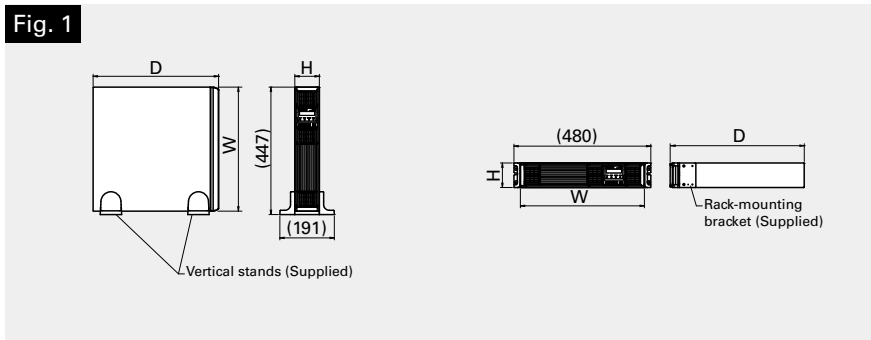
Order no. <sup>(1)</sup>	Outlet type	S-A11KL102B0013SSN00	S-A11KL152B0008SSN00	S-A11KL152B0019SSN00	S-A11KL202B0015SSN00
	Terminal block type	—	—	—	S-A11KL202B0015SST00
Rated output capacity (apparent power / active power)		1 kVA / 0.8 kW	1.5 kVA / 1.2 kW	1.5 kVA / 1.2 kW	2 kVA / 1.6 kW
Battery backup time <sup>(2)</sup>		13 min (15 min)	8 min (10 min)	19 min (20 min)	15 min (16 min)
Battery capacity [Ah-cell]		84	84	180	180
Battery power consumption [Wh]		310	310	666	666
Input plug		NEMA 5-15P	NEMA 5-15P	NEMA 5-15P	NEMA L5-30P or M5 terminal
Output outlet		NEMA 5-15R × 6	NEMA 5-15R × 6	NEMA 5-15R × 6	NEMA L5-30R × 1 or M5 terminal NEMA 5-15R × 2 (15 A each)
Acoustic noise	During normal operation	41 dB	45 dB	45 dB	45 dB
	During battery operation or at a temperature above 40°C	51 dB	51 dB	51 dB	51 dB
Heat dissipation (At rated operation, after battery charging completed)		82 W	127 W	127 W	153 W
Input leakage current		3 mA	3 mA	3 mA	3 mA
Operating environment		Ambient temperature: -20 to +55°C, <sup>(3)</sup> humidity: 10 to 90% RH (non-condensing)			
Dimensions <sup>(4)</sup> (Unit: mm)					
Drawing		Fig. 1	Fig. 1	Fig. 1	Fig. 1
W		435	435	435	435
H		86 (2U)	86 (2U)	86 (2U)	86 (2U)
D		440	488	625	625
Mass		17 kg	18 kg	27 kg	27 kg

(1) Vertical/rack-mount convertible

(2) At a 25°C ambient temperature, 0.8 load power factor, using new, fully charged batteries. The values in parentheses are the values at a load power factor of 0.7.

(3) When the battery temperature exceeds 55°C, battery charging will stop and a Device Error (minor malfunction) will be generated to warn the faulty battery temperature.

(4) Dimensions do not include protruding objects like screws.

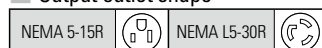


Paint color: Black (Munsell N1.5)

**Input plug shape**



**Output outlet shape**



Output capacity **3 kVA, 5 kVA**

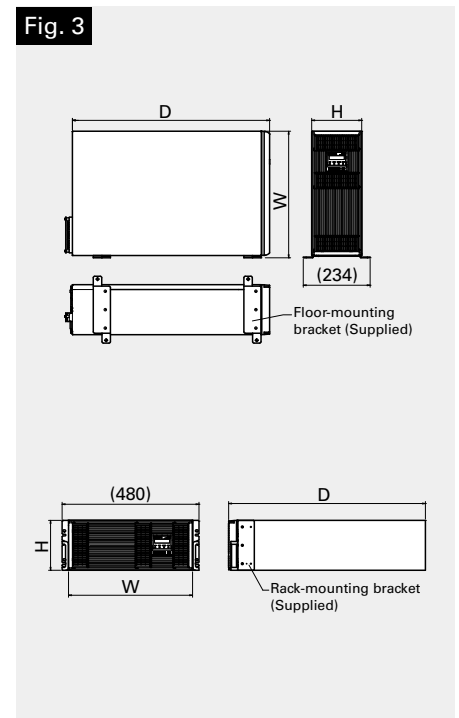
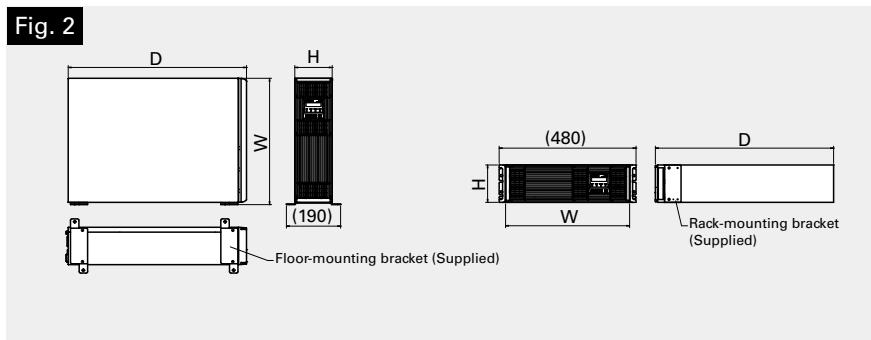
Order no. <sup>(1)</sup>	Outlet type	S-A11KL302B0009SSN00	S-A11KL302B0019SSN00	—
	Terminal block type	S-A11KL302B0009SST00	S-A11KL302B0019SST00	S-A11KL502B0011SST00
Rated output capacity (apparent power / active power)		3 kVA / 2.4 kW	3 kVA / 2.4 kW	5 kVA / 4 kW
Battery backup time <sup>(2)</sup>		9 min (10 min)	19 min (20 min)	11 min (12 min)
Battery capacity [Ah-cell]		180	360	360
Battery power consumption [Wh]		666	1332	1332
Input plug		NEMA L5-30P or M5 terminal	NEMA L5-30P or M5 terminal	M5 terminal
Output outlet		NEMA L5-30R × 1 or M5 terminal NEMA 5-15R × 2 (15 A each)	NEMA L5-30R × 1 or M5 terminal NEMA 5-15R × 2 (15 A each)	M5 terminal NEMA 5-15R × 2 (15 A each)
Acoustic noise	During normal operation	46 dB	46 dB	46 dB
	During battery operation or at a temperature above 40°C	55 dB	55 dB	55 dB
Heat dissipation (At rated operation, after battery charging completed)		254 W	254 W	421 W
Input leakage current		3.5 mA	3.5 mA	3.5 mA
Operating environment		Ambient temperature: -20 to +55°C, <sup>(3)</sup> humidity: 10 to 90% RH (non-condensing)		
Dimensions <sup>(4)</sup> (Unit: mm)				
Drawing		Fig. 2	Fig. 3	Fig. 3
W		435	435	435
H		131 (3U)	175 (4U)	175 (4U)
D		625	690	690
Mass		32 kg	47 kg	49 kg

(1) Vertical/rack-mount convertible

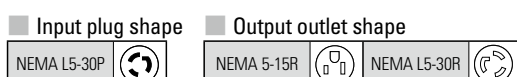
(2) At 25°C ambient temperature and load power factor of 0.8, using new, fully charged batteries. In parentheses are values at 0.7 load power factor.

(3) When the battery temperature exceeds 55°C, battery charging will stop and a Device Error (minor malfunction) will be generated to warn the faulty battery temperature.

(4) Dimensions do not include protruding objects like screws.



Paint color: Black (Munsell N1.5)



**Specifications**

UL certified models

Output capacity **1 kVA, 1.5 kVA**

Order no.		<b>S-A11KL102C0013UJ</b>	<b>S-A11KL152C0008UJ</b>	
UL-registered no.		A11KL102U001J	A11KL152U001J	
Rated output capacity (apparent power / active power)		1 kVA / 0.8 kW	At 100 V setting: 1.25 kVA / 1.0 kW At 110 V setting: 1.375 kVA / 1.1 kW At 120 V setting: 1.5 kVA / 1.2 kW	
Technology	Topology	Double conversion online		
	Rectifier	High power factor converter		
	Cooling method	Forced air cooling		
AC input	Inverter	High-frequency PWM		
	No. of phases/wires	Single-phase 2-wire <sup>(1)</sup>		
	Rated voltage	100/110/120 V (Same as output voltage)		
	Voltage range	At load level < 70%: Within -40 to +20% of rated voltage (-40% becomes -20% when returning to grid operation) At load level ≥ 70%: Within ±20% of rated voltage		
	Rated frequency	50/60 Hz (auto-sensing <sup>(2)</sup> )		
	Frequency range	Within ±1/3/5/7% of rated frequency (same as output frequency regulation)		
	Required capacity <sup>(3)</sup>	1.1 kVA	1.5 kVA	
	Input power factor	0.95 or greater		
AC output	No. of phases/wires	Single-phase 2-wire		
	Rated voltage	100/110/120 V (User-selectable. Factory setting: 100 V)		
	Rated current	10 A	12.5 A	
	Voltage regulation	Within ±2% of rated voltage (at rated output)		
	Rated frequency	50/60 Hz (Same as the input rated frequency)		
	Frequency regulation	During grid operation	Within ±1/3/5/7% of the rated frequency (User-selectable. Factory setting: ±3%)	
		During battery operation	Within ±0.5% of rated frequency	
	Output waveform	Pure sine wave		
	Voltage harmonic distortion	At linear load	3% or less (At rated output)	
		At rectifier load	7% or less (At rated output)	
	Load power factor	Rated	0.8 lagging (Variation range: 0.7 lagging to 1.0)	
	Transient voltage fluctuation	For abrupt load change	Within ±5% of rated voltage (For 0⇌100% load step changes at rated input)	
		For loss or return of input power	Within ±5% of rated voltage (at rated output)	
		For abrupt input voltage change	Within ±5% of rated voltage (For ±10% abrupt change)	
Overcurrent protection	Automatic transfer to bypass (With automatic retransfer function)			
Overload capability	Inverter	105% (for 200 ms)		
	Bypass	200% (for 30 s), 800% (for 2 cycles)		
Output Line Control	Yes			
Battery	Type	Lithium-ion battery		
	Battery backup time <sup>(4)</sup>	Initial value	13 min (15 min)	8 min (10 min)
		After 10 years <sup>(5)</sup>	11 min (12 min)	6 min (8 min)
Battery self-test	Can be enabled (Factory setting: "disabled")			
Interface	PC port	RS-232C		
	Remote port	Remote ON/OFF switch (can control up to 5 UPS units in Linked Operation using a dedicated connection cable)		
	Dry contact	Optional dry contact interface card is required		
	Network support	Optional LAN interface card is required		
Acoustic noise	During normal operation	41 dB	45 dB	
	During battery operation or at a temperature above 40°C	51 dB	51 dB	
Heat dissipation (At rated operation, after battery charging completed)	82 W	127 W		
Input leakage current	3 mA	3 mA		
Operating environment	Ambient temperature: -20 to +55°C, <sup>(6)</sup> humidity: 10 to 90% RH (non-condensing)			
Storage environment <sup>(7)</sup>	Temperature: -20 to +55°C, humidity: 10 to 90% RH (non-condensing)			
Expected service life (of the UPS unit excluding battery)	10 years (At a 30°C average ambient temperature. For reference purposes only.)			
Safety standard	UL 1778 5th edition (E226092), CSA C22.2 No. 107.3-14 (3rd edition)			
EMC standard	Compliant with VCCI 32-1 Class A Self-declared for FCC Part 15, Subpart B Class A			
Separate options				
Rack support rails <sup>(8)</sup>	RM030-US (2U)			
Floor mounting brackets <sup>(9)</sup>	FMA11KA00			
Caster base <sup>(10)</sup>	CBA11KA01			
Air filter kit <sup>(11)</sup>	FL008-3			

(1) If single-wire grounding the AC input and output, set the input/output ground phase according to the UPS specification. The W (N) terminal of AC input (S phase) and the W (N) terminal of AC output (V phase) are to be grounded.  
 (2) The inverter synchronizes operation with AC input and allows uninterrupted transfer through a bypass circuit provided that the AC input frequency is within a range of the rated frequency ±3% (1, 3, 5, or 7% selectable) and the AC input voltage is within the rated voltage ±20% (if the load level is less than 70%: between -40% and +20%).  
 (3) Max. capacity during battery recovery charging  
 (4) At 25°C ambient temperature and load power factor of 0.8, using new, fully charged batteries. In parentheses are values at 0.7 load power factor.  
 (5) Assuming 10 power outages per year

(6) When the battery temperature exceeds 55°C, battery charging will stop and a Device Error (minor malfunction) will be generated to warn the faulty battery temperature.  
 (7) Avoid use or storage in 30°C or higher temperatures for extended periods of time, or the battery's life will be shortened. If a UPS is to be stored for a long period, it will be necessary to recharge batteries once every six months.  
 (8) Used for mounting the UPS on a standard 19-inch rack. Prior to purchase, check that the rails are mountable to your 19-inch rack.  
 (9) Used to secure a free-standing type UPS to the floor.  
 (10) Used to carry a vertically-installed UPS.  
 (11) A front side air intake filter for preventing dust ingress.

Dimensions

UL certified models

Output capacity **1 kVA, 1.5 kVA**

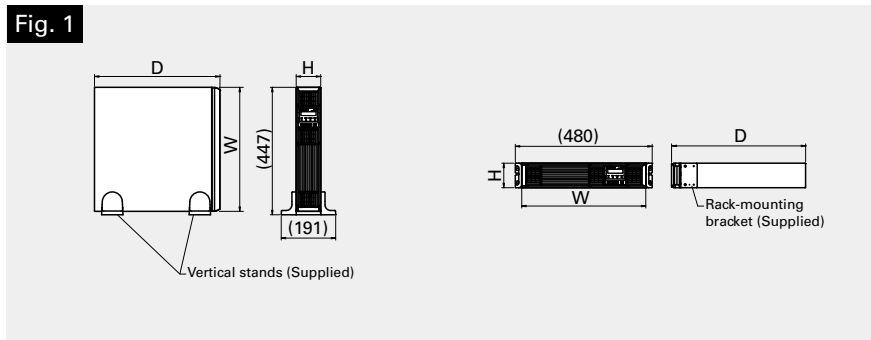
Order no. <sup>(1)</sup>		<b>S-A11KL102C0013UJ</b>	<b>S-A11KL152C0008UJ</b>
Rated output capacity (apparent power / active power)		1 kVA / 0.8 kW	At 100 V setting: 1.25 kVA / 1.0 kW At 110 V setting: 1.375 kVA / 1.1 kW At 120 V setting: 1.5 kVA / 1.2 kW
Battery backup time <sup>(2)</sup>		13 min (15 min)	8 min (10 min)
Battery capacity [Ah-cell]		80	80
Battery power consumption [Wh]		264	264
Input plug		NEMA 5-15P	NEMA 5-15P
Output outlet		NEMA 5-15R × 6	NEMA 5-15R × 6
Acoustic noise	During normal operation	41 dB	45 dB
	During battery operation or at a temperature above 40°C	51 dB	51 dB
Heat dissipation (At rated operation, after battery charging completed)		82 W	127 W
Input leakage current		3 mA	3 mA
Operating environment		Ambient temperature: -20 to +55°C, <sup>(3)</sup> humidity: 10 to 90% RH (non-condensing)	
Dimensions <sup>(4)</sup> (Unit: mm)			
Drawing		Fig. 1	Fig. 1
W		435	435
H		86 (2U)	86 (2U)
D		440	488
Mass		16 kg	17 kg

(1) Vertical/rack-mount convertible

(2) At 25°C ambient temperature and load power factor of 0.8, using new, fully charged batteries. In parentheses are values at 0.7 load power factor.

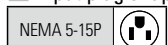
(3) When the battery temperature exceeds 55°C, battery charging will stop and a Device Error (minor malfunction) will be generated to warn the faulty battery temperature.

(4) Dimensions do not include protruding objects like screws.

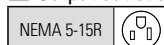


Paint color: Black (Munsell N1.5)

Input plug shape

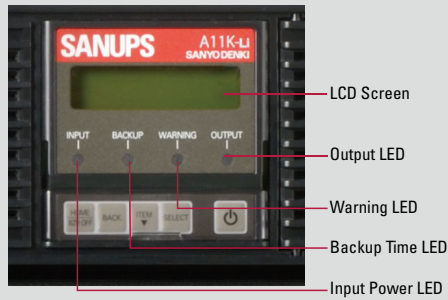


Output outlet shape



Views and Part Names

LCD Panel



Sliding button cover Opened (slides up/down)



Inverter ON/STANDBY Button  
Menu Operation Buttons

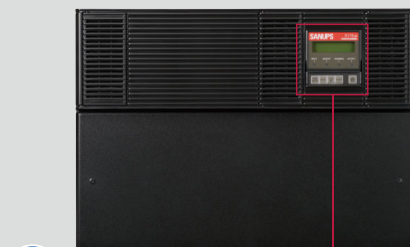
1.5 kVA, Front View



**L100 to 600 min**  
Battery backup time

LCD Panel

3 kVA, Front View



**L50 to 300 min**  
Battery backup time

LCD Panel

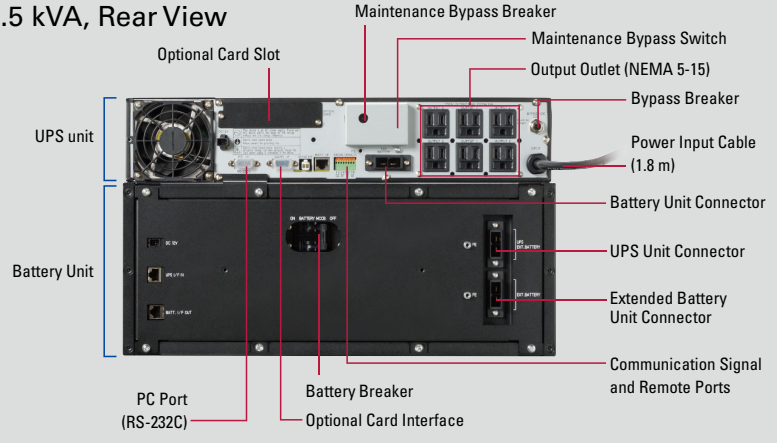
5 kVA, Front View



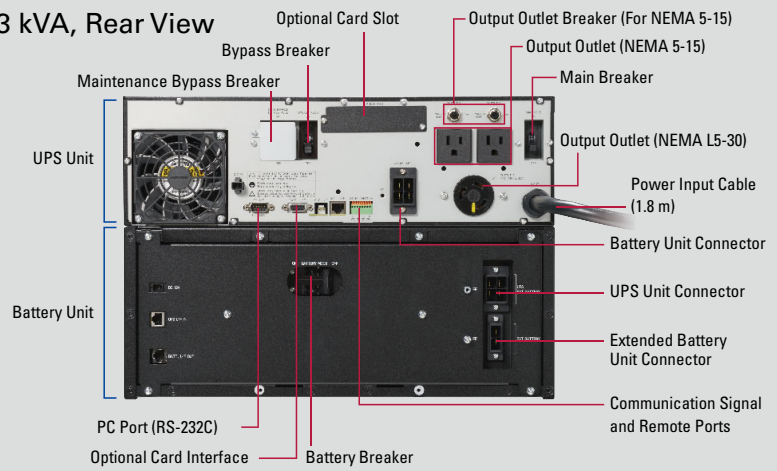
**L30 to 180 min**  
Battery backup time

LCD Panel

1.5 kVA, Rear View

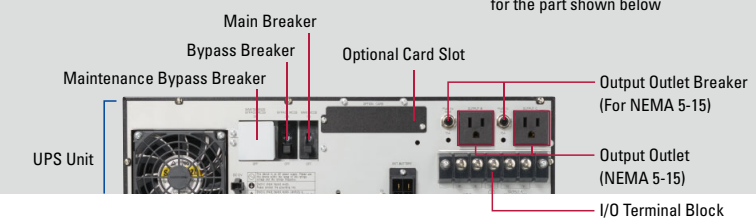


3 kVA, Rear View

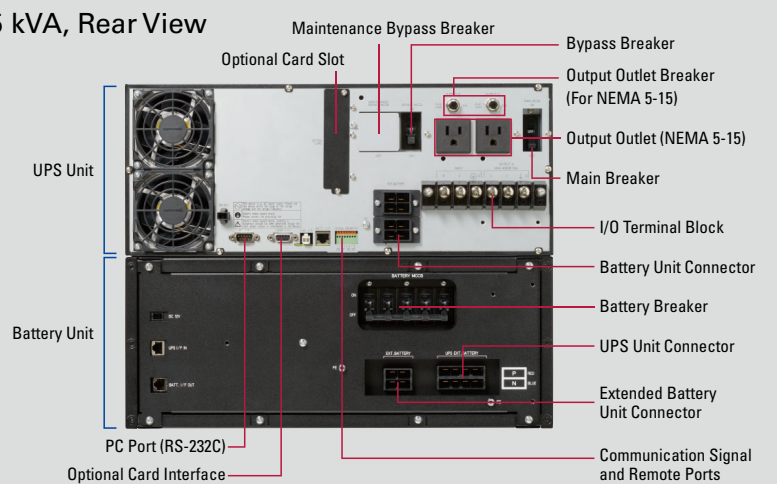


3 kVA Terminal Block Type, Rear View

Same as above model except for the part shown below



5 kVA, Rear View



Note: The photos above may look different from the actual products in the printed text, etc.

## Specifications

Output capacity **1.5 to 5 kVA**Battery backup time **30 to 600 min**

Order no. (A set of a UPS unit and battery units)		S-A11KL152B0□□00TSN00□□	S-A11KL302B0□□0TS□00□□	S-A11KL502B0□□0TST00□□
UPS unit model no.		A11KL152	A11KL302	A11KL502
Rated output capacity (apparent power / active power)		1.5 kVA / 1.2 kW	3 kVA / 2.4 kW	5 kVA / 4 kW
Technology	Topology	Double conversion online		
	Rectifier	High power factor converter		
	Cooling method	Forced air cooling		
	Inverter	High-frequency PWM		
AC input	No. of phases/wires	Single-phase 2-wire <sup>(1)</sup>		
	Rated voltage	100/110/120 V (Same as output voltage)		
	Voltage range	At load level < 70%: Within -40 to +20% of rated voltage (-40% becomes -20% for recovery voltage) At load level ≥ 70%: Within ±20% of rated voltage		
	Rated frequency	50/60 Hz (auto-sensing <sup>(2)</sup> )		
	Frequency range	Within ±1, 3, 5, or 7% of rated frequency (same as output frequency regulation)		
	Required capacity <sup>(3)</sup>	1.5 kVA	3.0 kVA	5.3 kVA
	Input power factor	0.95 or greater	0.97 or greater	
	AC output	No. of phases/wires	Single-phase 2-wire	
Rated voltage		100/110/120 V (User-selectable. Factory setting: 100 V)		
Rated current		15 A	30 A	50 A
Voltage regulation		Within ±2% of rated voltage (at rated output)		
Rated frequency		50/60 Hz (Same as the input rated frequency)		
Frequency regulation		During grid operation	Within ±1, 3, 5, or 7% of the rated frequency (User-selectable. Factory setting: ±3%)	
		During battery operation	Within ±0.5% of rated frequency	
Output waveform		Pure sine wave		
Voltage harmonic distortion		At linear load	3% or less (At rated output)	
		At rectifier load	7% or less (At rated output)	
Load power factor		Rated	0.8 lagging (Variation range: 0.7 lagging to 1.0)	
Transient voltage fluctuation		For abrupt load change	Within ±5% of rated voltage (For 0⇔100% load step changes at rated input; output switching)	
		For loss or return of input power	Within ±5% of rated voltage (At rated output)	
		For abrupt input voltage change	Within ±5% of rated voltage (For ±10% abrupt change)	
Overcurrent protection		Automatic transfer to bypass (With automatic retransfer function)		
Overload capability		Inverter	105% (for 200 ms)	
	Bypass	200% (for 30 s), 800% (for 2 cycles)		
Output Line Control	No			
Battery	Type	Lithium-ion battery		
	Battery backup time <sup>(4)</sup>	Initial value	100/200/300/400/500/600 min	50/100/150/200/250/300 min
		After 10 years <sup>(5)</sup>	95/190/285/380/475/570 min	47/95/142/190/237/285 min
Battery self-test	Settings possible (Factory setting: "disabled")			
Interface	PC port	RS-232C		
	Remote port	Remote ON/OFF switch (can control up to 5 UPS units in Linked Operation using a dedicated connection cable)		
	Communication signal port	Failure/Outage		
	Dry contact	Optional dry contact interface card is required		
	Network support	Optional LAN interface card is required		
Acoustic noise	During normal operation	45 dB or less	46 dB or less	46 dB or less
	During battery operation or at a temperature above 40°C	51 dB or less	55 dB or less	55 dB or less (60 dB or less when battery voltage is low)
Heat dissipation (At rated operation, after battery charging completed)	127 W	254 W	430 W	
Input leakage current	3 mA or less	3.5 mA or less	3.5 mA or less	
Operating environment	Ambient temperature: -20 to +55°C, <sup>(6)</sup> humidity: 10 to 90% RH (non-condensing)			
Storage environment <sup>(7)</sup>	Ambient temperature: -20 to +55°C, humidity: 10 to 90% RH (non-condensing)			
Expected service life (of the UPS unit excluding battery)	10 years (At a 30°C average ambient temperature. For reference purposes only.)			
EMC standard	Compliant with VCCI 32-1 Class A			
Separate options				
UPS unit rack support rails <sup>(8)</sup>	RM030-US (2U)	RM027-US (3U)	RM028-US (4U)	
Battery unit rack support rails <sup>(8)</sup>	RM028-US (4U)	RM028-US (4U)	RM028-US (4U)	
Floor mounting brackets (for free-standing type) <sup>(9)</sup>	FMBCA01	FMBCA01	FMBCA01	
Air filter kit <sup>(10)</sup>	FL008-3	FL009-3	FL010-3	

(1) If single-wire grounding the AC input and output, set the input/output ground phase according to the UPS specification. The W (N) terminal of AC input (S phase) and the W (N) terminal of AC output (V phase) are to be grounded.

(2) The inverter synchronizes operation with AC input and allows uninterrupted transfer through a bypass circuit provided that the AC input frequency is within a range of the rated frequency ±3% (1, 3, 5, or 7% selectable) and the AC input voltage is within the rated voltage ±20% (if the load level is less than 70%: between -40% and +20%).

(3) Max. capacity during battery recovery charging

(4) At 25°C ambient temperature and load power factor of 0.8, using new, fully charged batteries.

(5) Assuming 10 power outages per year

(6) When the battery temperature exceeds 55°C, battery charging will stop and a Device Error (minor malfunction) will be generated to warn the faulty battery temperature.

(7) Avoid use or storage in 30°C or higher temperatures for extended periods of time, or the battery's life will be shortened. If a UPS is to be stored for a long period, it will be necessary to recharge batteries once a year.

(8) Used for mounting a UPS unit and battery unit on an EIA standard 19-inch rack. Prior to purchase, check that the rails are mountable to your 19-inch rack.

(9) Used to secure a free-standing type to the floor.

(10) A front side air intake filter for preventing dust ingress.

**Dimensions**

Output capacity **1.5 kVA**

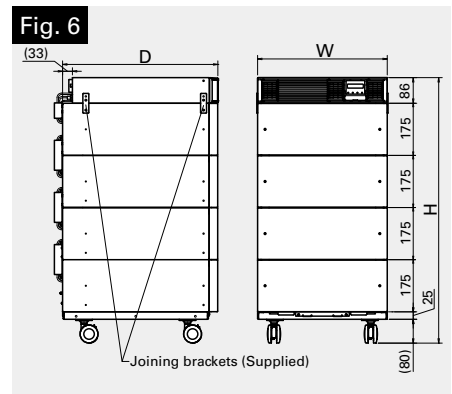
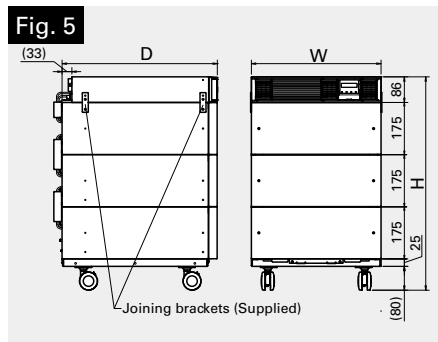
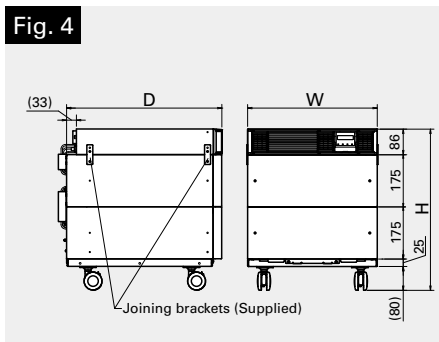
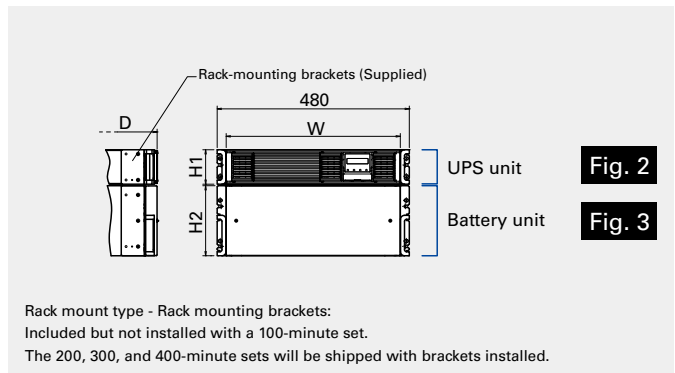
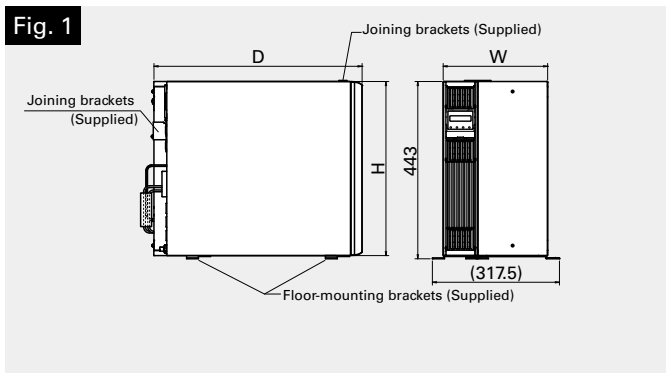
Free-standing type (A set of a UPS unit and battery units)	Order no.	<b>S-A11KL152B0100TSN00<sup>(1)</sup></b>	<b>S-A11KL152B0200TSN00</b>	<b>S-A11KL152B0300TSN00</b>	<b>S-A11KL152B0400TSN00</b>
Rack mount type (A set of a UPS unit and battery units)	Order no.		<b>S-A11KL152B0200TSN00RM</b>	<b>S-A11KL152B0300TSN00RM</b>	<b>S-A11KL152B0400TSN00RM</b>
Rated output capacity (apparent power / active power)	1.5 kVA / 1.2 kW				
Battery backup time <sup>(2)</sup>	100 min	200 min	300 min	400 min	
Battery capacity [Ah-cell]	1104	2208	3312	4416	
Battery power consumption [Wh]	2484	4968	7452	9936	
Input plug	NEMA 5-15P				
Output outlet	NEMA 5-15R × 6				
Acoustic noise	During normal operation	45 dB or less			
	During battery operation or at a temperature above 40°C	51 dB or less			
Heat dissipation (At rated operation, after battery charging completed)	127 W				
Input leakage current	3 mA or less				
Operating environment	Ambient temperature: -20 to +55°C, <sup>(3)</sup> humidity: 10 to 90% RH (non-condensing)				
Free-standing type - Dimensions <sup>(4)</sup> (Unit: mm)					
Drawing	Fig. 1	Fig. 4	Fig. 5	Fig. 6	
W	86+175	435	435	435	
H	435	541	716	891	
D	520	520	520	520	
Mass	66 kg	124 kg	176 kg	228 kg	
Rack mount type - UPS unit dimensions <sup>(4)</sup> (Unit: mm)					
Drawing	Fig. 2				
W	435				
H1	86 (2U)				
D	488				
Mass	14 kg				
Rack mount type - Battery unit dimensions <sup>(4)</sup> (Unit: mm)					
Drawing	Fig. 3 × 1	Fig. 3 × 2	Fig. 3 × 3	Fig. 3 × 4	
W	435	435	435	435	
H2	175 (4U)	175 × 2 (8U)	175 × 3 (12U)	175 × 4 (16U)	
D	520	520	520	520	
Mass	52 kg	52 kg × 2	52 kg × 3	52 kg × 4	

(1) Vertical/rack-mount convertible

(2) At 25°C ambient temperature and load power factor of 0.8, using new, fully charged batteries.

(3) When the battery temperature exceeds 55°C, battery charging will stop and a Device Error (minor malfunction) will be generated to warn the faulty battery temperature.

(4) Dimensions do not include protruding objects like screws.



Paint color: Black (Munsell N1.5)

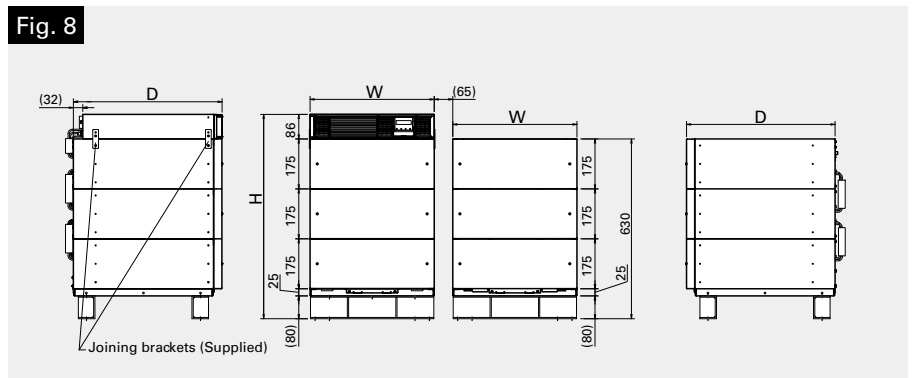
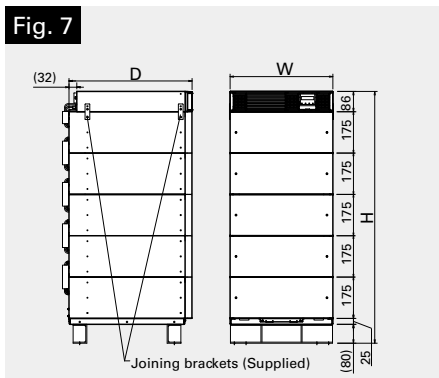
Output capacity **1.5 kVA**

Free-standing type (A set of a UPS unit and battery units)	Order no.	<b>S-A11KL152B0500TSN00</b>	<b>S-A11KL152B0600TSN00</b>
Rack mount type (A set of a UPS unit and battery units)	Order no.	—	—
Rated output capacity (apparent power / active power)	1.5 kVA / 1.2 kW		
Battery backup time <sup>(1)</sup>	500 min	600 min	
Battery capacity [Ah-cell]	5520	6624	
Battery power consumption [Wh]	12420	14904	
Input plug	NEMA 5-15P		
Output outlet	NEMA 5-15R × 6		
Acoustic noise	During normal operation	45 dB	
	During battery operation or at a temperature above 40°C	51 dB	
Heat dissipation (At rated operation, after battery charging completed)	127 W		
Input leakage current	3 mA or less		
Operating environment	Ambient temperature: -20 to +55°C, <sup>(2)</sup> humidity: 10 to 90% RH (non-condensing)		
Free-standing type - Dimensions <sup>(3)</sup> (Unit: mm)			
Drawing	Fig. 7	Fig. 8	
W	435	435 + 435 (+ 65)	
H	1066	716	
D	520	520	
Mass	286 kg	184 + 170 kg	
Rack mount type - UPS unit dimensions <sup>(3)</sup> (Unit: mm)			
Drawing	—		
W	—		
H1	—		
D	—		
Mass	—		
Rack mount type - Battery unit dimensions <sup>(3)</sup> (Unit: mm)			
Drawing	—		
W	—		
H2	—		
D	—		
Mass	—		

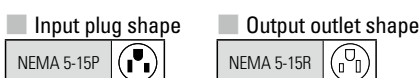
(1) At 25°C ambient temperature and load power factor of 0.8, using new, fully charged batteries.

(3) Dimensions do not include protruding objects like screws.

(2) When the battery temperature exceeds 55°C, battery charging will stop and a Device Error (minor malfunction) will be generated to warn the faulty battery temperature.



Paint color: Black (Munsell N1.5)



**Dimensions**

Output capacity **3 kVA**

Terminal block type in the next spread

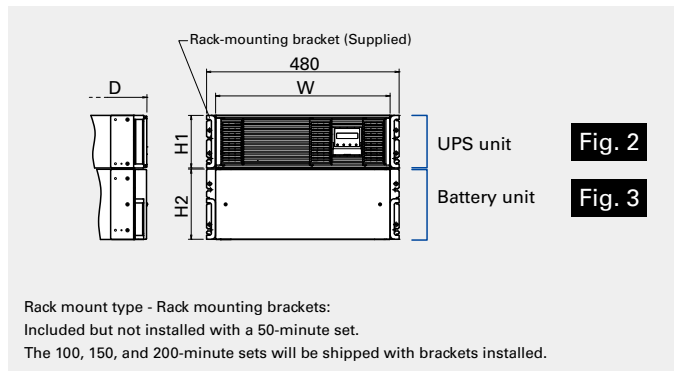
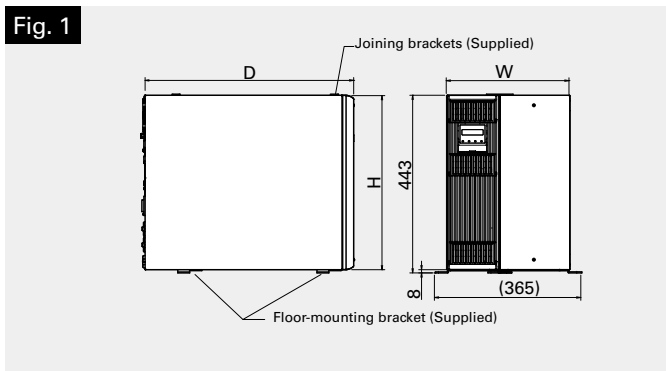
Free-standing type (A set of a UPS unit and battery units)	Order no.	<b>S-A11KL302B0050TSN00<sup>(1)</sup></b>	<b>S-A11KL302B0100TSN00</b>	<b>S-A11KL302B0150TSN00</b>	<b>S-A11KL302B0200TSN00</b>
Rack mount type (A set of a UPS unit and battery units)	Order no.		<b>S-A11KL302B0100TSN00RM</b>	<b>S-A11KL302B0150TSN00RM</b>	<b>S-A11KL302B0200TSN00RM</b>
Rated output capacity (apparent power / active power)	3 kVA / 2.4 kW				
Battery backup time <sup>(2)</sup>	50 min	100 min	150 min	200 min	
Battery capacity [Ah-cell]	1104	2208	3312	4416	
Battery power consumption [Wh]	2484	4968	7452	9936	
Input plug	NEMA L5-30P				
Output outlet	NEMA L5-30R × 1, NEMA 5-15R × 2 (15 A each)				
Acoustic noise	During normal operation	46 dB or less			
	During battery operation or at a temperature above 40°C	55 dB or less			
Heat dissipation (At rated operation, after battery charging completed)	254 W				
Input leakage current	3.5 mA or less				
Operating environment	Ambient temperature: -20 to +55°C, <sup>(3)</sup> humidity: 10 to 90% RH (non-condensing)				
Free-standing type - Dimensions <sup>(4)</sup> (Unit: mm)					
Drawing	Fig. 1	Fig. 4	Fig. 5	Fig. 6	
W	131+175	435	435	435	
H	435	586	761	936	
D	520	520	520	520	
Mass	74 kg	132 kg	184 kg	236 kg	
Rack mount type - UPS unit dimensions <sup>(4)</sup> (Unit: mm)					
Drawing	Fig. 2				
W	435				
H1	131 (3U)				
D	520				
Mass	22 kg				
Rack mount type - Battery unit dimensions <sup>(4)</sup> (Unit: mm)					
Drawing	Fig. 3 × 1	Fig. 3 × 2	Fig. 3 × 3	Fig. 3 × 4	
W	435	435	435	435	
H2	175 (4U)	175 × 2 (8U)	175 × 3 (12U)	175 × 4 (16U)	
D	520	520	520	520	
Mass	52 kg	52 kg × 2	52 kg × 3	52 kg × 4	

(1) Vertical/rack-mount convertible

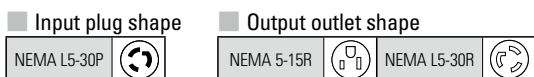
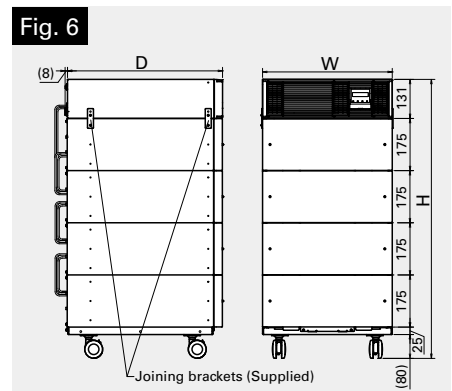
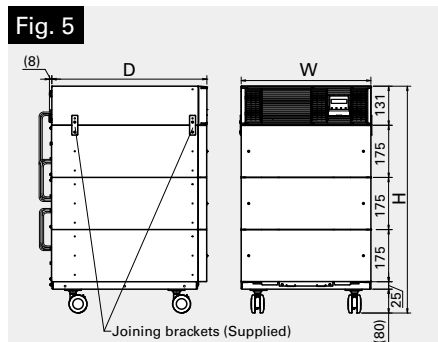
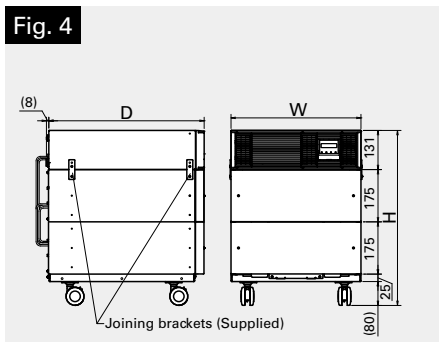
(2) At 25°C ambient temperature and load power factor of 0.8, using new, fully charged batteries.

(3) When the battery temperature exceeds 55°C, battery charging will stop and a Device Error (minor malfunction) will be generated to warn the faulty battery temperature.

(4) Dimensions do not include protruding objects like screws.



Rack mount type - Rack mounting brackets:  
Included but not installed with a 50-minute set.  
The 100, 150, and 200-minute sets will be shipped with brackets installed.



Paint color: Black (Munsell N1.5)

Output capacity **3 kVA**

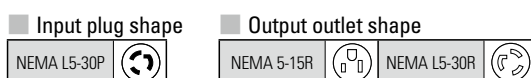
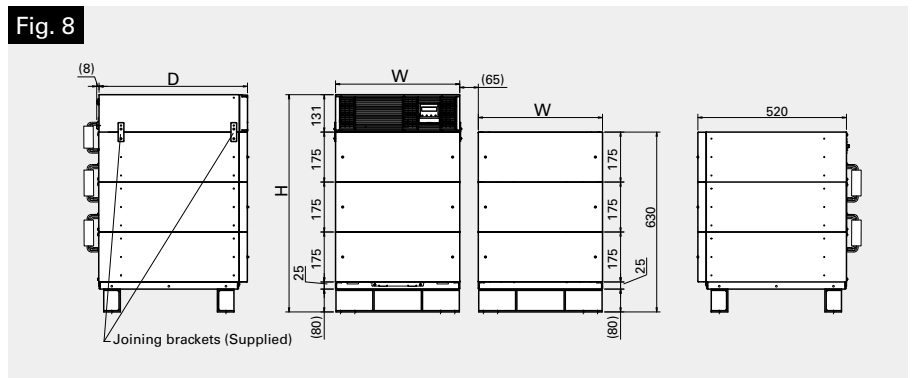
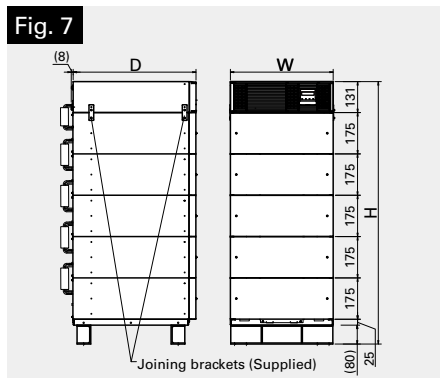
Terminal block type in the next page

Free-standing type (A set of a UPS unit and battery units)		Order no. <b>S-A11KL302B0250TSN00</b>	<b>S-A11KL302B0300TSN00</b>
Rack mount type (A set of a UPS unit and battery units)		Order no. —	—
Rated output capacity (apparent power / active power)		3 kVA / 2.4 kW	
Battery backup time <sup>(1)</sup>		250 min	300 min
Battery capacity [Ah-cell]		5520	6624
Battery power consumption [Wh]		12420	14904
Input plug		NEMA L5-30P	
Output outlet		NEMA L5-30R × 1, NEMA 5-15R × 2 (15 A each)	
Acoustic noise	During normal operation	46 dB or less	
	During battery operation or at a temperature above 40°C	55 dB or less	
Heat dissipation (At rated operation, after battery charging completed)		254 W	
Input leakage current		3.5 mA or less	
Operating environment		Ambient temperature: -20 to +55 °C, <sup>(2)</sup> humidity: 10 to 90% RH (non-condensing)	
Free-standing type - Dimensions <sup>(3)</sup> (Unit: mm)			
Drawing		Fig. 7	Fig. 8
W		435	435 + 435 (+ 65)
H		1111	761
D		520	520
Mass		294 kg	192 + 170 kg
Rack mount type - UPS unit dimensions <sup>(3)</sup> (Unit: mm)			
Drawing		—	
W		—	
H1		—	
D		—	
Mass		—	
Rack mount type - Battery unit dimensions <sup>(3)</sup> (Unit: mm)			
Drawing		—	
W		—	
H2		—	
D		—	
Mass		—	

(1) At 25°C ambient temperature and load power factor of 0.8, using new, fully charged batteries.

(2) When the battery temperature exceeds 55°C, battery charging will stop and a Device Error (minor malfunction) will be generated to warn the faulty battery temperature.

(3) Dimensions do not include protruding objects like screws.



**Dimensions**

Output capacity **3 kVA**

Terminal block type

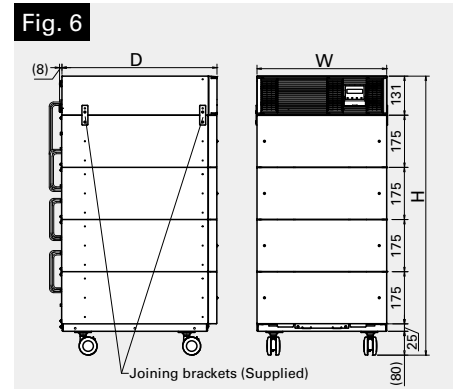
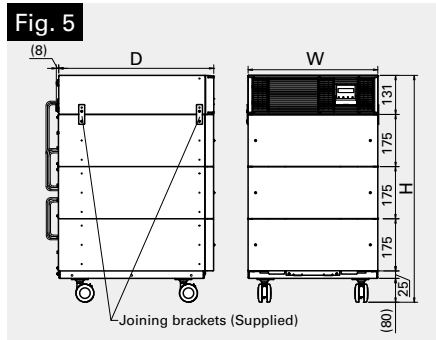
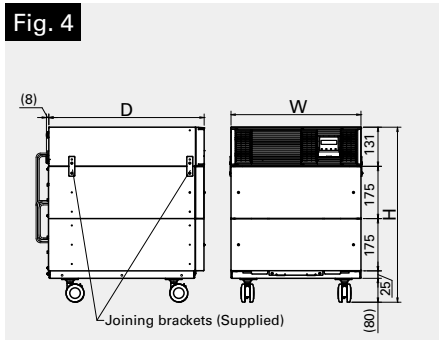
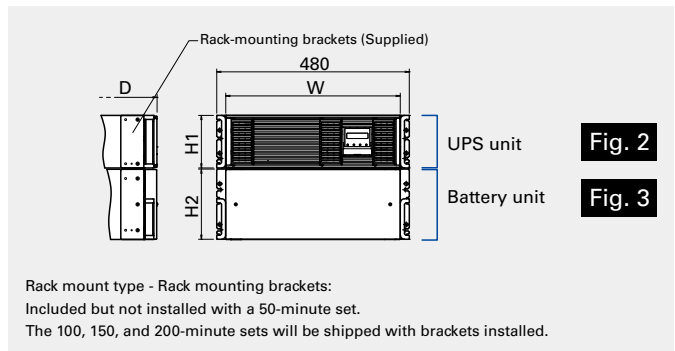
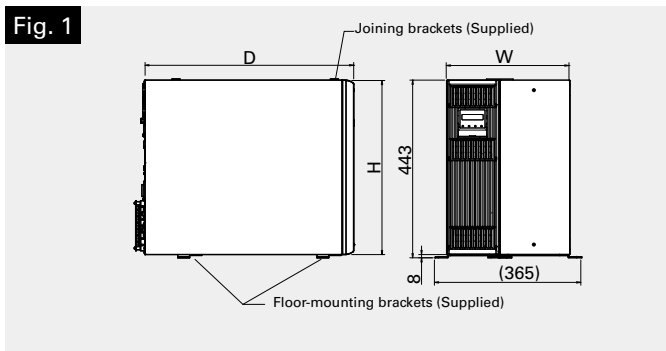
Free-standing type (A set of a UPS unit and battery units)	Order no.	<b>S-A11KL302B0050TST00<sup>(1)</sup></b>	<b>S-A11KL302B0100TST00</b>	<b>S-A11KL302B0150TST00</b>	<b>S-A11KL302B0200TST00</b>
Rack mount type (A set of a UPS unit and battery units)	Order no.		<b>S-A11KL302B0100TST00RM</b>	<b>S-A11KL302B0150TST00RM</b>	<b>S-A11KL302B0200TST00RM</b>
Rated output capacity (apparent power / active power)	3 kVA / 2.4 kW				
Battery backup time <sup>(2)</sup>	50 min	100 min	150 min	200 min	
Battery capacity [Ah-cell]	1104	2208	3312	4416	
Battery power consumption [Wh]	2484	4968	7452	9936	
Input terminal	M5 terminal				
Output terminal and receptacle	M5 terminal and NEMA 5-15R x 2 (15 A each)				
Acoustic noise	During normal operation	46 dB or less			
	During battery operation or at a temperature above 40°C	55 dB or less			
Heat dissipation (At rated operation, after battery charging completed)	254 W				
Input leakage current	3.5 mA or less				
Operating environment	Ambient temperature: -20 to +55°C, <sup>(3)</sup> humidity: 10 to 90% RH (non-condensing)				
Free-standing type - Dimensions <sup>(4)</sup> (Unit: mm)					
Drawing	Fig. 1	Fig. 4	Fig. 5	Fig. 6	
W	131+175	435	435	435	
H	435	586	761	936	
D	520	520	520	520	
Mass	74 kg	132 kg	184 kg	236 kg	
Rack mount type - UPS unit dimensions <sup>(4)</sup> (Unit: mm)					
Drawing	Fig. 2				
W	435				
H1	131 (3U)				
D	520				
Mass	22 kg				
Rack mount type - Battery unit dimensions <sup>(4)</sup> (Unit: mm)					
Drawing	Fig. 3 x 1	Fig. 3 x 2	Fig. 3 x 3	Fig. 3 x 4	
W	435	435	435	435	
H2	175 (4U)	175 x 2 (8U)	175 x 3 (12U)	175 x 4 (16U)	
D	520	520	520	520	
Mass	52 kg	52 kg x 2	52 kg x 3	52 kg x 4	

(1) Vertical/rack-mount convertible

(2) At 25°C ambient temperature and load power factor of 0.8, using new, fully charged batteries.

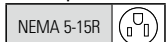
(3) When the battery temperature exceeds 55°C, battery charging will stop and a Device Error (minor malfunction) will be generated to warn the faulty battery temperature.

(4) Ignoring screw lengths and the like



Paint color: Black (Munsell N1.5)

**Output outlet shape**



Output capacity **3 kVA**

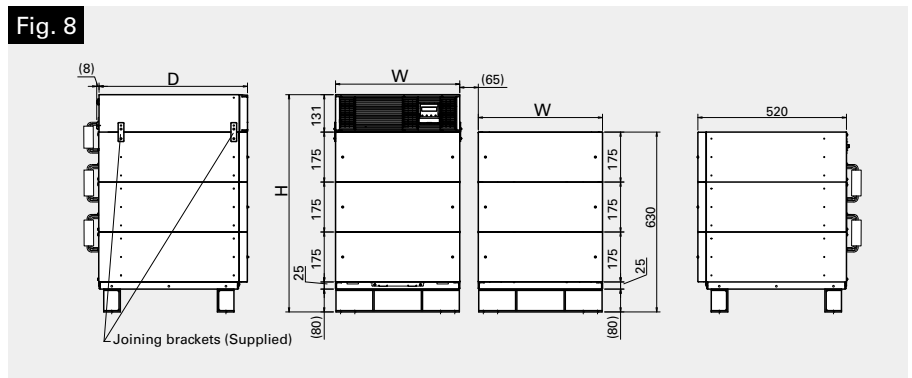
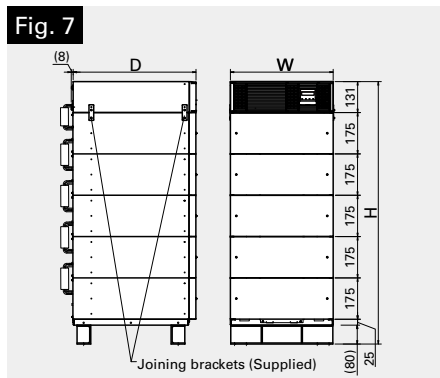
Terminal block type

Free-standing type (A set of a UPS unit and battery units)	Order no.	<b>S-A11KL302B0250TST00</b>	<b>S-A11KL302B0300TST00</b>
Rack mount type (A set of a UPS unit and battery units)	Order no.	—	—
Rated output capacity (apparent power / active power)	3 kVA / 2.4 kW		
Battery backup time <sup>(1)</sup>	250 min	300 min	
Battery capacity [Ah-cell]	5520	6624	
Battery power consumption [Wh]	12420	14904	
Input plug	M5 terminal		
Output outlet	M5 terminal and NEMA 5-15R × 2 (15 A each)		
Acoustic noise	During normal operation	46 dB or less	
	During battery operation or at a temperature above 40°C	55 dB or less	
Heat dissipation (At rated operation, after battery charging completed)	254 W		
Input leakage current	3.5 mA or less		
Operating environment	Ambient temperature: -20 to +55°C, <sup>(2)</sup> humidity: 10 to 90% RH (non-condensing)		
Free-standing type - Dimensions <sup>(3)</sup> (Unit: mm)			
Drawing	Fig. 7	Fig. 8	
W	435	435 + 435 (+ 65)	
H	1111	761	
D	520	520	
Mass	294 kg	192 + 170 kg	
Rack mount type - UPS unit dimensions <sup>(3)</sup> (Unit: mm)			
Drawing	—		
W	—		
H1	—		
D	—		
Mass	—		
Rack mount type - Battery unit dimensions <sup>(3)</sup> (Unit: mm)			
Drawing	—		
W	—		
H2	—		
D	—		
Mass	—		

(1) At 25°C ambient temperature and load power factor of 0.8, using new, fully charged batteries.

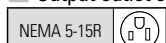
(3) Dimensions do not include protruding objects like screws.

(2) When the battery temperature exceeds 55°C, battery charging will stop and a Device Error (minor malfunction) will be generated to warn the faulty battery temperature.



Paint color: Black (Munsell N1.5)

Output outlet shape



**Dimensions**

Output capacity **5 kVA**

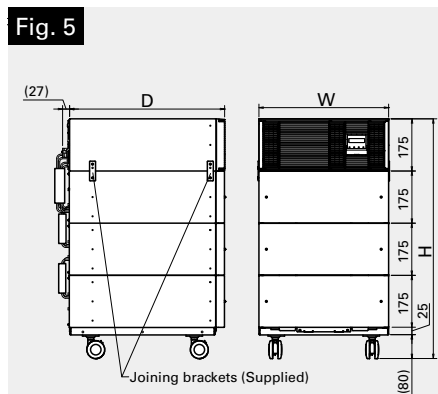
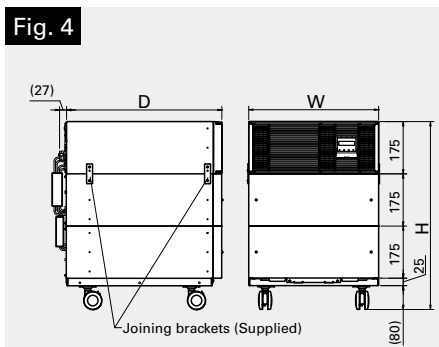
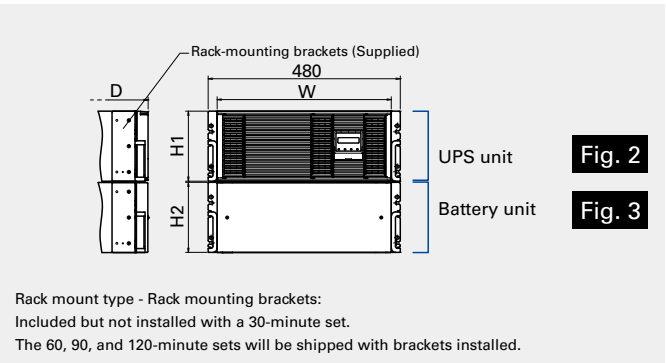
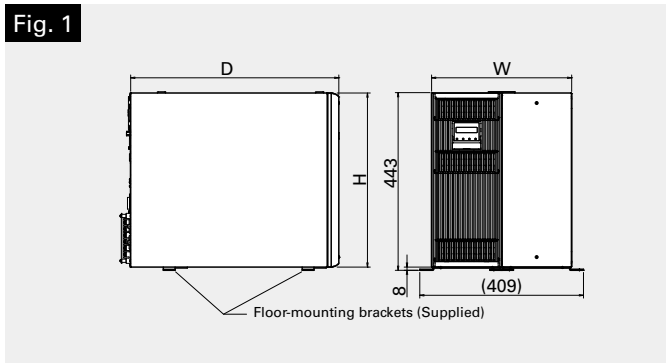
Free-standing type (A set of a UPS unit and battery units)	Order no. <b>S-A11KL502B0030TST00<sup>(1)</sup></b>	<b>S-A11KL502B0060TST00</b>	<b>S-A11KL502B0090TST00</b>
Rack mount type (A set of a UPS unit and battery units)	Order no.	<b>S-A11KL502B0060TST00RM</b>	<b>S-A11KL502B0090TST00RM</b>
Rated output capacity (apparent power / active power)	5 kVA / 4 kW		
Battery backup time <sup>(2)</sup>	30 min	60 min	90 min
Battery capacity [Ah-cell]	1104	2208	3312
Battery power consumption [Wh]	2484	4968	7452
Input terminal	M5 terminal		
Output terminal and receptacle	M5 terminal and NEMA 5-15R × 2 (15 A each)		
Acoustic noise	During normal operation	45 dB or less	
	During battery operation or at a temperature above 40°C	56 dB or less	
	When battery voltage is low	60 dB or less	
Heat dissipation (At rated operation, after battery charging completed)	430 W		
Input leakage current	3.5 mA or less		
Operating environment	Ambient temperature: -20 to +55°C, <sup>(3)</sup> humidity: 10 to 90% RH (non-condensing)		
Free-standing type - Dimensions <sup>(4)</sup> (Unit: mm)			
Drawing	Fig. 1	Fig. 4	Fig. 5
W	175+175	435	435
H	435	630	805
D	520	520	520
Mass	82 kg	140 kg	192 kg
Rack mount type - UPS unit dimensions <sup>(4)</sup> (Unit: mm)			
Drawing	Fig. 2		
W	435		
H1	175 (4U)		
D	520		
Mass	30 kg		
Rack mount type - Battery unit dimensions <sup>(4)</sup> (Unit: mm)			
Drawing	Fig. 3 × 1	Fig. 3 × 2	Fig. 3 × 3
W	435	435	435
H2	175 (4U)	175 × 2 (8U)	175 × 3 (12U)
D	520	520	520
Mass	52 kg	52 kg × 2	52 kg × 3

(1) Vertical/rack-mount convertible

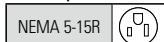
(2) At 25°C ambient temperature and load power factor of 0.8, using new, fully charged batteries.

(3) When the battery temperature exceeds 55°C, battery charging will stop and a Device Error (minor malfunction) will be generated to warn the faulty battery temperature.

(4) Dimensions do not include protruding objects like screws.



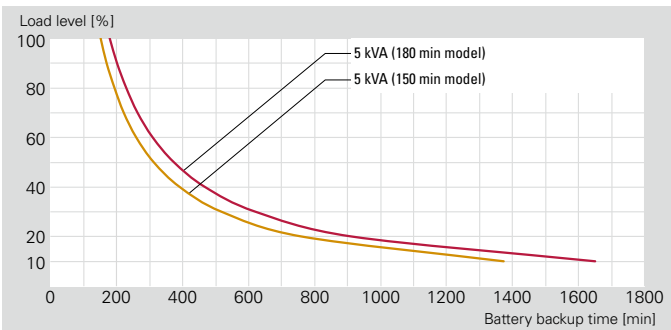
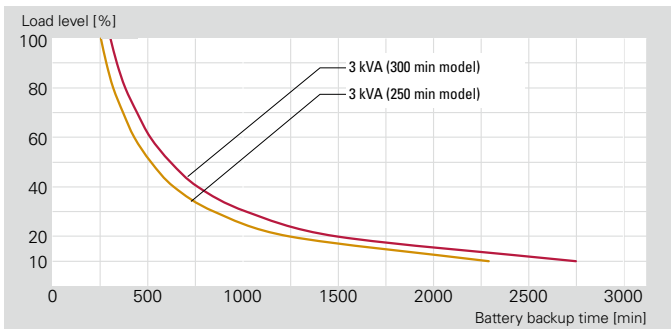
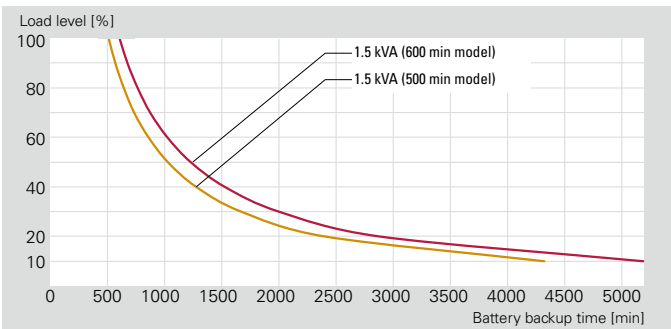
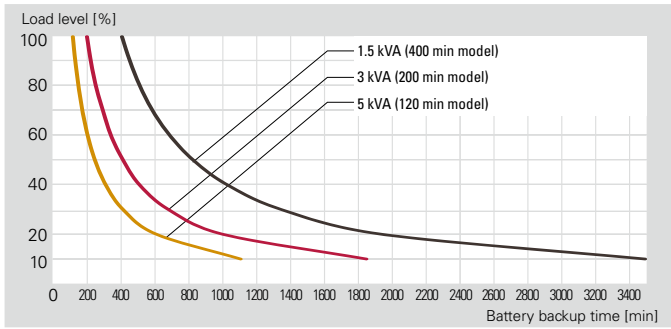
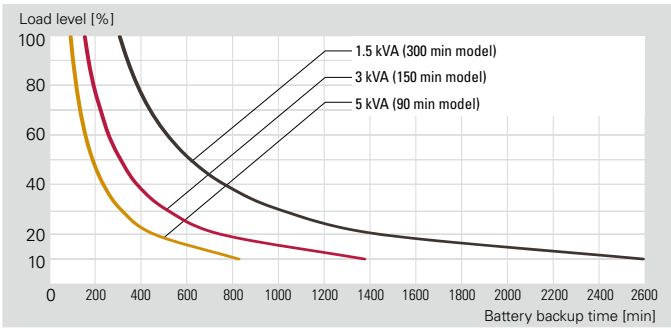
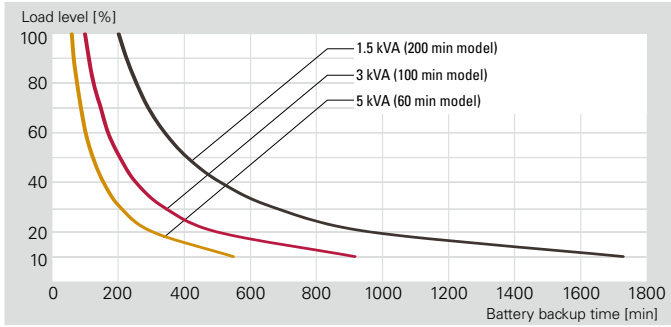
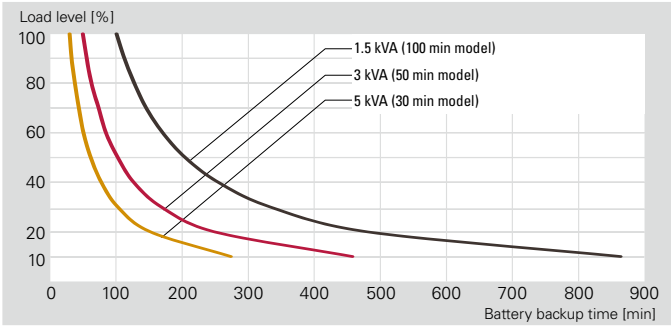
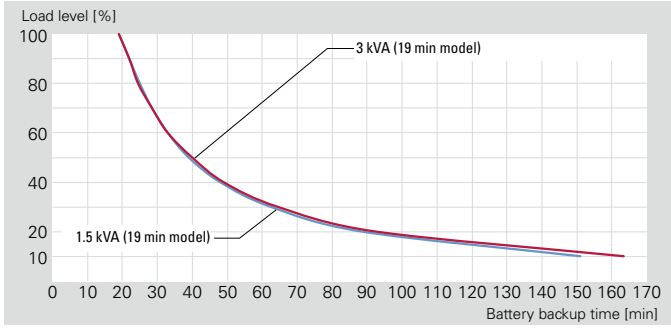
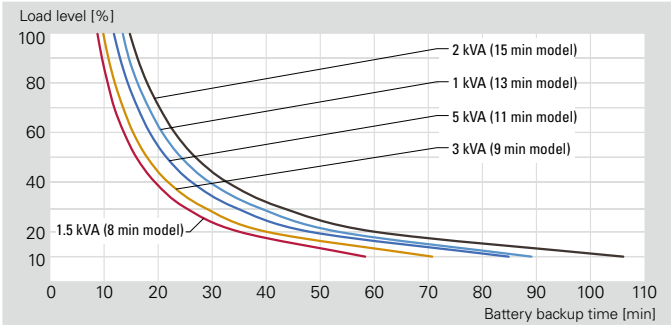
**Output outlet shape**



Paint color: Black (Munsell N1.5)



**Load Level vs BackupTime**



Note: Reference value at 25°C ambient temperature and load power factor of 0.8, using new, fully charged batteries.

## Network Options

Item		Model no.	Remarks
LAN Interface Card		<b>PRLANIF031</b>	When installed in the optional card slot, this card enables 24/7 monitoring of UPS operations and status, and sends email notifications to system administrators for quick actions via network in the event of a power failure. Combined with a temperature and humidity sensor (Model no.: 9CT1-T, extension cable: CARD-CBL007), this card can also monitor the ambient temperature and humidity. Multiple servers (up to 50) can be shut down through communication protocols such as SSH, Telnet, and REST API.
Dry Contact Interface Card	Terminal block output	<b>PRCONIF005</b>	This card outputs no-voltage contact signals to notify UPS status. A and B contacts can be selected for each signal.
	D-sub output connector	<b>PRCONIF006</b>	
SANUPS SOFTWARE Download version	for Windows	<b>PMS52□00DL<sup>(2)</sup></b>	SANUPS SOFTWARE is used to shut down multiple servers (up to 50 servers including USB-connected servers) over a network from a single UPS-connected server with a USB cable. The software is not necessary when using the LAN interface card PRLANIF031. For the latest OS support information, refer to our website. For bulk purchase of software licenses, append appropriate -suffix to the model number as on the right.
	for Multi-OS <sup>(1)</sup>	<b>PMS53□00DL<sup>(2)</sup></b>	
Remote switch	Cable length: 10 m	<b>RSW015</b>	This switch remotely turns on/off the UPS outlets via wired connection. It can control up to 5 UPS units in Linked Operation. (requires optional Linked Operation cable)
	Cable length: 2 m	<b>RSW016</b>	
Linked Operation cable	For branching, terminal connection; between relay connector and lead wire	<b>P10911</b>	A unit-to-unit cable for performing on/off switching of multiple UPS units.
	Cable length 1 m, between relay connector and lead wire	<b>P10912</b>	
	Cable length 3 m, between relay connector and lead wire	<b>P10913</b>	

(1) Supports Windows, Unix, and Linux.

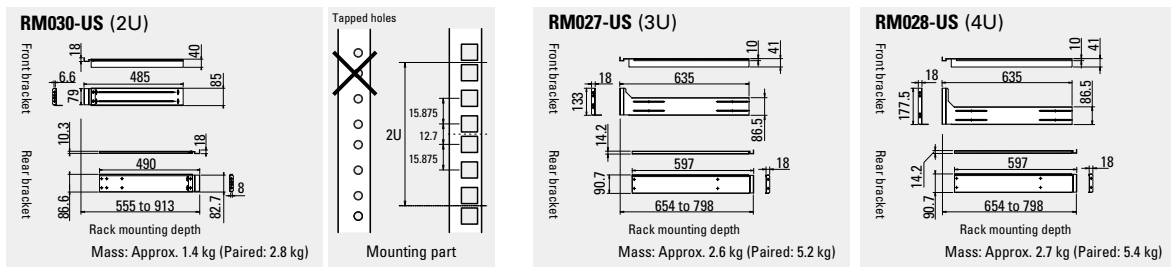
(2) The □'s denote revision characters.

Note: Optional products have different operating temperature ranges from the UPS.

## Dimensions of Options (Unit: mm)

### Rack support rails

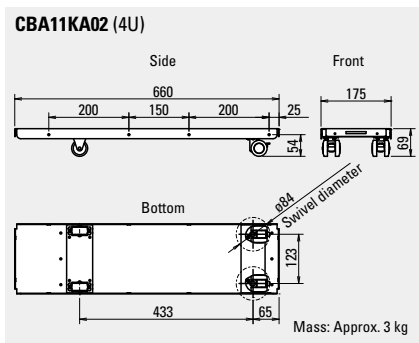
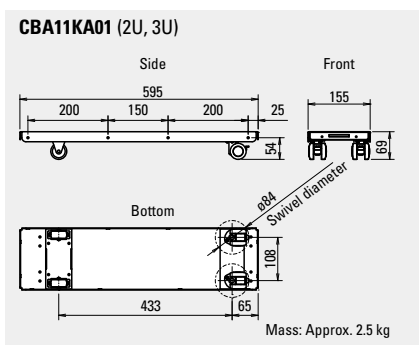
Used for mounting the UPS on a standard 19-inch rack. A pair of left and right rails. Shown is the left rail. They are not compatible with racks with tapped holes.



Rack mounting brackets for securing a UPS in a rack come included or installed.

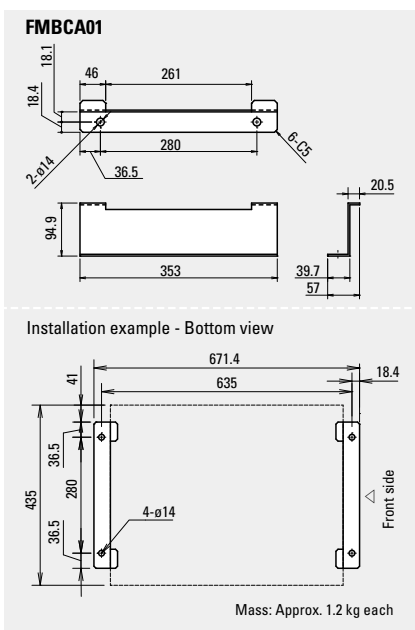
### Caster base

Used to move a vertically installed UPS.



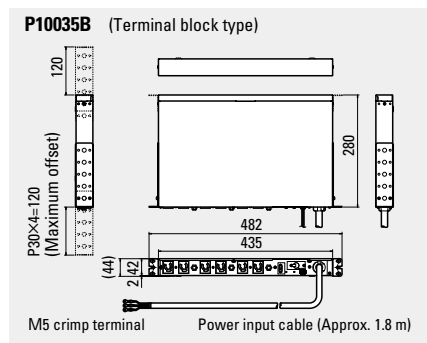
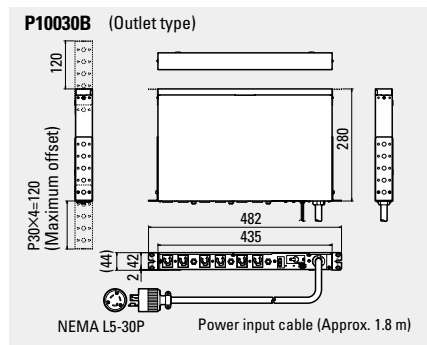
### Floor mounting brackets

Used to secure a free-standing type to the floor.



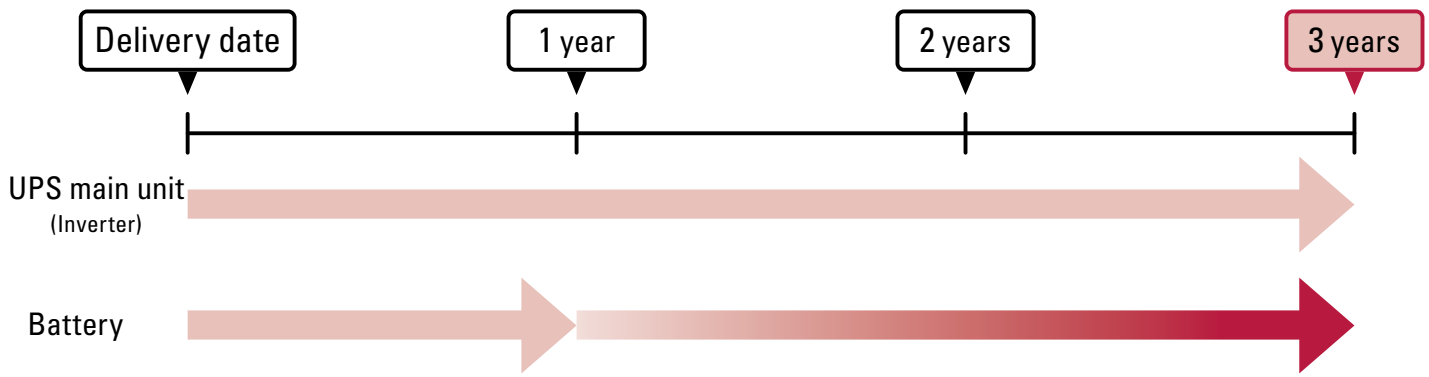
### Outlet box

Enables Output Line Control, the coordinated on/off management of UPS outlets when needed.  
Rated output: 2 to 3 kVA



# UPS warranty period

For warranty details, see the Warranty Card included with your UPS.



Battery warranty period is one year. It can be extended to three years by registering the UPS.

Note: This benefit is limited to users in Japan.

## Complete registration on our website:

<https://www.sanyodenki.com/>



### ■ ECO PRODUCTS

SANYO DENKI's ECO PRODUCTS are designed with the concept of lessening impact on the environment in the process from product development to waste. The product units and packaging materials are designed for reduced environmental impact. We have established our own assessment criteria on the environmental impacts applicable to all processes, ranging from design to manufacture. Those products that satisfy the criteria are accredited as ECO PRODUCTS.

- Fire Service Law and Fire Prevention Ordinance in Japan  
The Fire Prevention Ordinance regulates the total battery capacity of storage batteries, including lithium-ion batteries, that can be installed indoors. When installing UPSs indoors, check that the total battery capacity of a given location does not exceed 20 kWh. If exceeded, consult with your local fire department.  
Note that the UPSs cannot be used as an emergency power supply for firefighting equipment.
- Building Standard Law in Japan  
The UPSs cannot be used as backup power for building facilities conforming to the disaster management requirements defined in the Building Standard Law.

### Notes before Purchase

- Before installing, assembling, and using the products, please read Instruction Manual carefully and use them properly.
- When using the products in the following applications, consult with us in advance because special considerations are required for operation, maintenance, and management.
  - (a) Medical equipment that may have direct effects on human life or human body.
  - (b) Trains, elevators, and other machinery that can cause injury.
  - (c) Socially and publicly important computer systems.
  - (d) Other equipment that is related to safety of human life and that can have major impact on maintenance of public functions.
- For use in an environment where vibration is present, such as in a car or a ship, please consult with us in advance.
- Never attempt to disassemble or alter the products in any way.
- For installation and maintenance work of the products, please consult with us or properly licensed personnel.
- Please contact us concerning the disposal of used storage batteries supplied by SANYO DENKI.
- The products listed in this catalog fall into the category 16 of Appended Table 1 of the Export Trade Control Order. To export the products as an individual part or to export a device into which the products are assembled, the "Inform Requirements" and "Objective Requirements" that the Ministry of Economy, Trade and Industry of Japan established based on the "Catch-all Controls" must be studied for applicability. Accordingly, appropriate export formalities must be performed.
- SANYO DENKI will not be liable for any direct or indirect damages or loss, including but not limited to equipment downtime, missed power sales revenue, business interruptions, increased power purchases, resulting from the use of or inability to use our products or services.
- The products listed in this catalog are equipped with lithium-ion batteries. When transporting the products, do not transport by air. When transporting by sea, transport must be carried out according to the International Maritime Dangerous Goods (IMDG) Code. Also, depending on the country and region, there are cases where regulations are established independently, so please consult with the shipping company in advance.

For any inquiry or consultation, please contact a SANYO DENKI sales representative.

**SANYO DENKI CO., LTD.** 3-33-1 Minami-Otsuka, Toshima-ku, Tokyo 170-8451, Japan TEL: +81 3 5927 1020

<https://www.sanyodenki.com/>

The names of companies and/or their products specified in this document are the trade names, and/or trademarks and/or registered trademarks of such respective companies.

San Ace, SANUPS, and SANMOTION are registered trademarks of SANYO DENKI CO., LTD.

Specifications are subject to change without notice.

CATALOG No.P1023B009 '25.5