SANYO DENKI

SANUPS A11M

Online UPS

Ver.2
English

SANUPS A11M

Highly reliable parallel redundant UPS for use around the world

UPS unit
3-year warranty

Lineup

[No. of phases/wires] Input/Output voltage	Output capacity [kVA]	Output capacity [kW]	Battery backup time*	Input/Output	UL/CE certified	Order no.	Page: Specifications	Page: Dimensions
[Single-phase 2-wire] 100 V model 100/110/115/120 V	1	0.8	3 min (5 min)	Terminal block	–	S-A11M102A1	5, 6	8
					✓	S-A11M102A1UJ	10, 11	13
	2	1.6			–	S-A11M202A1	5, 6	8
					✓	S-A11M202A1UJ	10, 11	13
	3	2.4			–	S-A11M302A1	5, 6	8
					✓	S-A11M302A1UJ	10, 11	13
	4	3.2			–	S-A11M402A1	5, 6	8
					✓	S-A11M402A1UJ	10, 11	13
	5	4			–	S-A11M502A1	5, 6	8
					✓	S-A11M502A1UJ	10, 11	13
	6	4.8			–	S-A11M602A1	5,7	9
					✓	S-A11M602A1UJ	10, 12	14
	7	5.6			–	S-A11M702A1	5,7	9
					✓	S-A11M702A1UJ	10, 12	14
	8	6.4			–	S-A11M802A1	5,7	9
					✓	S-A11M802A1UJ	10, 12	14
[Single-phase 2-wire] 200 V model 200/208/220/230/240 V	1	0.8	3 min (5 min)	Terminal block	–	S-A11M102A2	5, 6	8
					✓	S-A11M102A2UJ	10, 11	13
	2	1.6			–	S-A11M202A2	5, 6	8
					✓	S-A11M202A2UJ	10, 11	13
	3	2.4			–	S-A11M302A2	5, 6	8
					✓	S-A11M302A2UJ	10, 11	13
	4	3.2			–	S-A11M402A2	5, 6	8
					✓	S-A11M402A2UJ	10, 11	13
	5	4			–	S-A11M502A2	5, 6	8
					✓	S-A11M502A2UJ	10, 11	13
	6	4.8			–	S-A11M602A2	5,7	9
					✓	S-A11M602A2UJ	10, 12	14
	7	5.6			–	S-A11M702A2	5,7	9
					✓	S-A11M702A2UJ	10, 12	14
	8	6.4			–	S-A11M802A2	5,7	9
					✓	S-A11M802A2UJ	10, 12	14

* 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.

High Reliability

UPS units can be combined in a parallel redundant configuration. Even if one unit malfunctions, the remaining units can continue to supply stable power.

Wide Input Voltage Range

The 100 V and 200 V models have wide input voltage ranges of 55 to 150 V(1) and 110 to 300 V,(1) respectively. Both models have a wide input frequency range of 40 to 120 Hz.

Even with poor power conditions, these wide ranges reduce the number of unnecessary transfers to battery power, minimizing battery drain.

(1) At a load level less than 40%.

Easy Maintenance

Battery packs can be replaced from the front even during inverter operation.

UPS units can be replaced without interrupting output during parallel redundant operation, enabling power to continue to be supplied even if an outage occurs during maintenance.

Compliance with Safety Standards

This UPS conforms to UL safety standards and CE/UKCA marking.

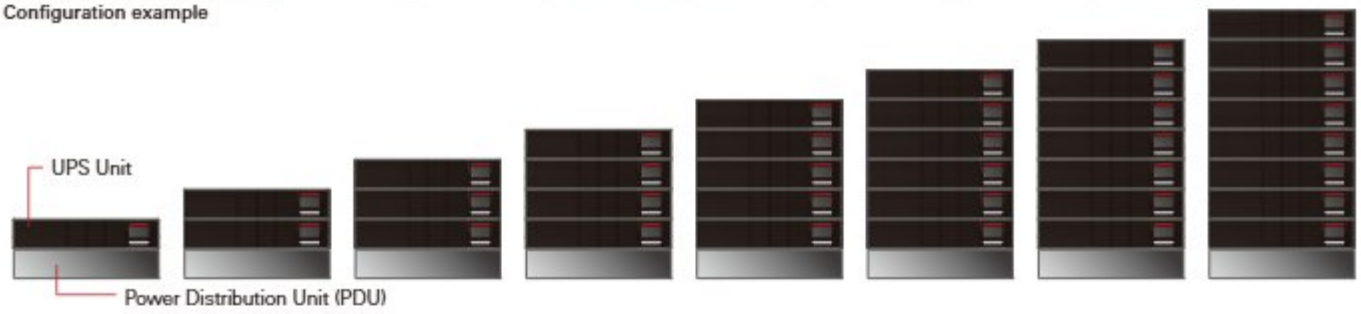
It can be used with confidence in various regions.

Parallel Redundant Configurations

A PDU is used in combination with up to 8 UPS units.

Single-unit/Parallel operation (N configuration)	1 kVA (0.8 kW)	2 kVA (1.6 kW)	3 kVA (2.4 kW)	4 kVA (3.2 kW)	5 kVA (4.0 kW)	6 kVA (4.8 kW)	7 kVA (5.6 kW)	8 kVA (6.4 kW)
Parallel redundant operation (N+1 configuration)	–	1 kVA (0.8 kW)	2 kVA (1.6 kW)	3 kVA (2.4 kW)	4 kVA (3.2 kW)	5 kVA (4.0 kW)	6 kVA (4.8 kW)	7 kVA (5.6 kW)

Configuration example

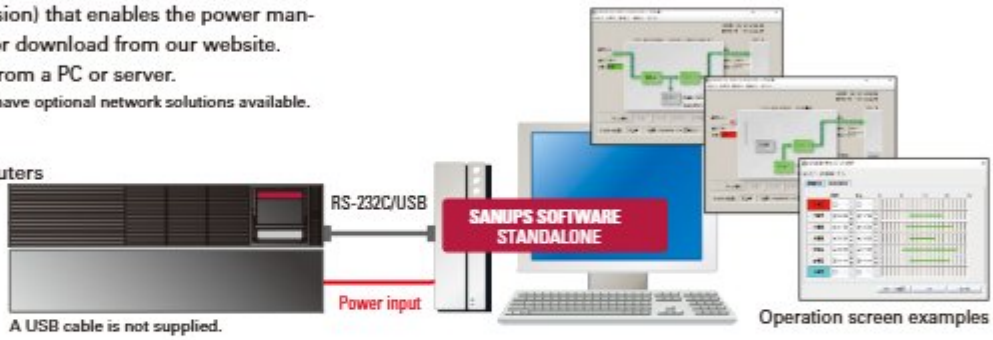


SANUPS SOFTWARE STANDALONE

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: 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



A USB cable is not supplied.

Operation screen examples

Battery Cold Start Function

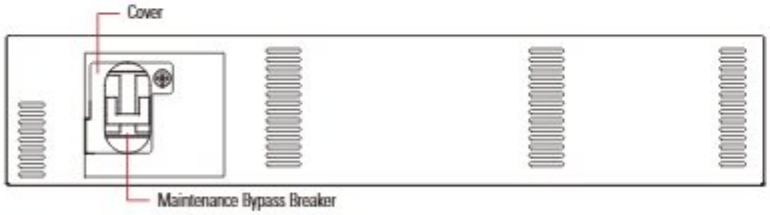
Batteries can start up the UPS even when grid power is not available, enabling inverter operation.
With this function enabled, the UPS can be used as an emergency power supply in the event of a natural disaster or emergency.
The default setting is "Disabled."

Views and Part Names

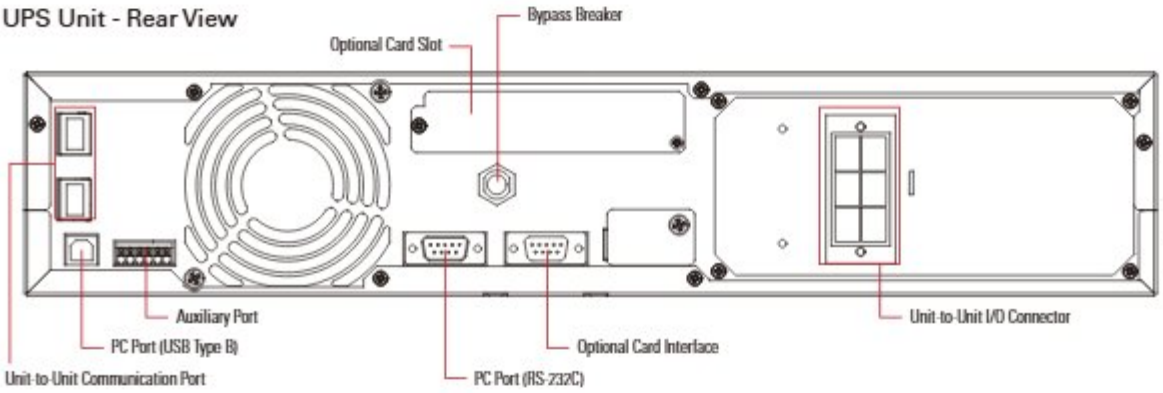
UPS Unit - Front View

LED Panel

PDU - Front View



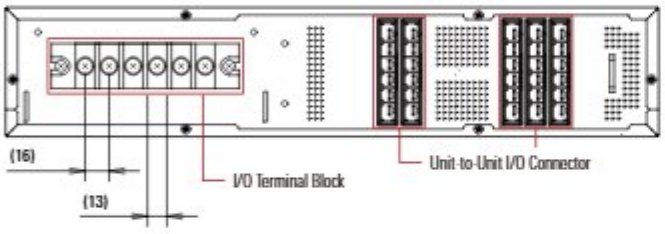
UPS Unit - Rear View



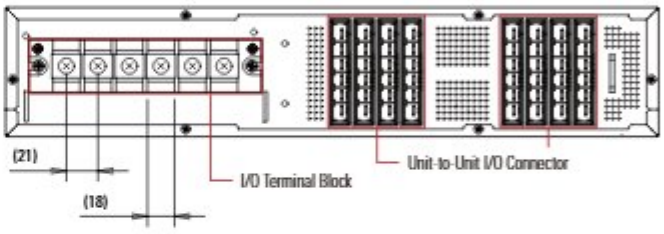
Input/Output voltage	Mass
100 V	16 kg
200 V	15 kg

PDU - Rear View

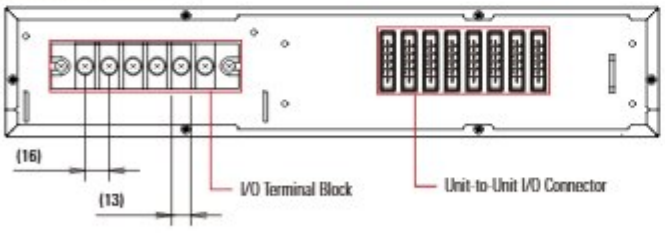
100 V model For 1 to 5 kVA



For 6 to 8 kVA



200 V model

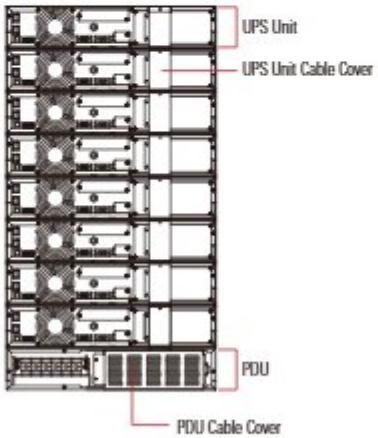


Specifications

Model no.			S-A11M 02A1	S-A11M 02A2	Remarks
Rated output capacity (apparent power / active power)		N config.	1.0 to 8.0 kVA / 0.8 to 6.4 kW		
		N+1 config.	1.0 to 7.0 kVA / 0.8 to 5.6 kW		
Technology	Topology		Double conversion online		
	Cooling system		Forced air cooling		
AC input	No. of phases/wires		Single-phase 2-wire(1)		
	Rated voltage		100/110/115/120 V	200/208/220/230/240 V	Same as AC output
	Voltage range		At load levels < 40%: 55 to 150 V	At load levels < 40%: 110 to 300 V	
			At load levels < 70%: 68 to 140 V	At load levels < 70%: 136 to 280 V	
			At load levels ≥ 70%: 80 to 140 V	At load levels ≥ 70%: 160 to 280 V	
	Rated frequency		50/60 Hz (auto-sensing)		
	Frequency range(2)	Synchronization range	Within 1/3/5% of rated frequency (Factory setting: 3%)		
		Asynchronous operation range	40 to 120 Hz		
	Required capacity(3)	N config.	1.1 to 8.2 kVA		
		N+1 config.	1.2 to 7.2 kVA		
	Input power factor		0.95 or greater		
AC output	No. of phases/wires		Single-phase 2-wire		
	Rated voltage		100/110/115/120 V (Factory setting: 100 V)	200/208/220/230/240 V (Factory setting: 200 V)	User-selectable
	Voltage regulation		Within 2% of rated voltage		
	Rated frequency		50/60 Hz		Same as input frequency
	Frequency regulation	In grid operation	Within 1/3/5% of rated frequency (Factory setting: 3%, during asynchronous operation: 0.5%)		
		In battery operation	Within 0.5% of rated frequency		
	Voltage harmonic distortion	At linear load	3% or less		At rated output
		At rectifier load	8% or less		
	Load power factor	Rated	0.8 lagging (Variation range: 0.7 lagging to 1.0)		
	Transient voltage fluctuation	For abrupt load change	Within 10% of rated voltage (For 0 100% load step changes at rated input)		
		For loss/return of input power	Within 10% of rated voltage (At rated output)		
		For abrupt input voltage change	Within 10% of rated voltage (For 10% abrupt change)		
	Overcurrent protection		Automatic transfer to bypass (With automatic retransfer)		
	Overload capability	Inverter	105% (for 200 ms)		N config.
		Bypass	200% (for 30 s), 800% (for 2 cycles)		N config.
Battery	Type		Small-sized valve-regulated lead-acid (VRLA) battery		
	Battery backup time(4)		3 min (5 min)		
	Expected service life		Approx. 5 years		
	Battery self-test		Every 30/90/180 days or never (Factory setting: 180 days)		User-selectable
Interface	PC port		RS-232C, USB Type B(5) (Cannot be used at the same time)		
	Remote port		Remote ON/OFF		
	Dry contact		Optional dry contact interface card is required		
	Network support		Optional LAN interface card is required		
Operating environment			Ambient temperature: -10 to +55 C(6), humidity: 20 to 90% RH (non-condensing)		
Expected service life (of the UPS unit excluding battery)			7 years (At a 30°C average ambient temperature. For reference purposes only.)		
Storage environment(7)			Ambient temperature: -15 to +60 C, humidity: 20 to 90% RH (non-condensing)		
EMC standard			Compliant with VCCI32-1 Class A		

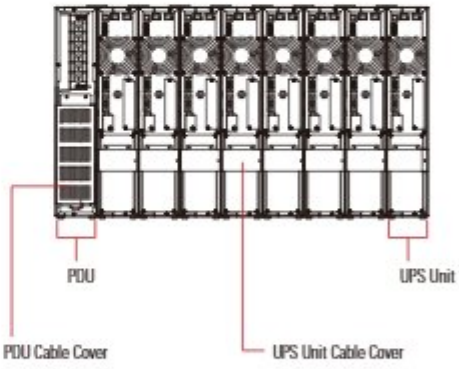
(1) If AC input is single-point grounded, connect the grounded phase of the AC input to the S or N terminal.
(2) The inverter is synchronized with AC input and allows an uninterrupted transfer to bypass provided that the input frequency is within ±3% of the rated frequency (1, 3, or 5% selectable).
(3) Max. capacity during battery recovery charging
(4) At 25°C ambient temperature and 0.8 load power factor, using new, fully charged batteries. In parentheses are values at a 0.7 load power factor.
(5) Use of USB interface requires driver installation.
(6) Battery charging will stop when battery temperature exceeds +40°C.
(7) Avoid use or storage in 30°C or higher temperatures for extended periods of time, or the battery life will shorten. When a UPS is stored without being operated for a long period, the batteries require recharging once every six months.

Rack mount type (Rear view)



8 kVA model

Free-standing type (Rear view)



Specifications

100 V model

Order no.		S-A11M102A1	S-A11M202A1	S-A11M302A1	S-A11M402A1	S-A11M502A1
Rated output capacity (Apparent power/Active power)	N config.	1.0 kVA / 0.8 kW	2.0 kVA / 1.6 kW	3.0 kVA / 2.4 kW	4.0 kVA / 3.2 kW	5.0 kVA / 4.0 kW
	N+1 config.	–	1.0 kVA / 0.8 kW	2.0 kVA / 1.6 kW	3.0 kVA / 2.4 kW	4.0 kVA / 3.2 kW
No. of batteries (2 in series)		2	4	6	8	10
Battery capacity [Ah cell]		108	216	324	432	540
Required capacity	N config.	1.1 kVA or less	2.1 kVA or less	3.1 kVA or less	4.2 kVA or less	5.2 kVA or less
	N+1 config.	–	1.2 kVA or less	2.2 kVA or less	3.2 kVA or less	4.2 kVA or less
Heat dissipation		140 W	275 W	410 W	545 W	680 W
Acoustic noise		54 dB or less	57 dB or less	57 dB or less	57 dB or less	58 dB or less
Input leakage current		13.5 mA or less	16.0 mA or less	18.5 mA or less	21.0 mA or less	23.5 mA or less
Dimensions		Fig. 1	Fig. 2	Fig. 3	Fig. 4	Fig. 5
Mass		29 kg	44 kg	60 kg	76 kg	92 kg
	UPS unit	16 kg 1	16 kg 2	16 kg 3	16 kg 4	16 kg 5
	PDU	12 kg	12 kg	12 kg	12 kg	12 kg
	Floor mounting brackets (Supplied)	0.8 kg	–	–	–	–
Separate options						
Rack support rails(1) (RM039)		2 pairs	3 pairs	4 pairs	5 pairs	6 pairs
Air filter kit(2) (FL011)		1 pc	2 pcs	3 pcs	4 pcs	5 pcs

200 V model

Order no.		S-A11M102A2	S-A11M202A2	S-A11M302A2	S-A11M402A2	S-A11M502A2
Rated output capacity (Apparent power/Active power)	N config.	1.0 kVA / 0.8 kW	2.0 kVA / 1.6 kW	3.0 kVA / 2.4 kW	4.0 kVA / 3.2 kW	5.0 kVA / 4.0 kW
	N+1 config.	–	1.0 kVA / 0.8 kW	2.0 kVA / 1.6 kW	3.0 kVA / 2.4 kW	4.0 kVA / 3.2 kW
No. of batteries (2 in series)		2	4	6	8	10
Battery capacity [Ah cell]		108	216	324	432	540
Required capacity	N config.	1.1 kVA or less	2.1 kVA or less	3.1 kVA or less	4.2 kVA or less	5.2 kVA or less
	N+1 config.	–	1.2 kVA or less	2.2 kVA or less	3.2 kVA or less	4.2 kVA or less
Heat dissipation		150 W	287 W	424 W	561 W	698 W
Acoustic noise		54 dB or less	57 dB or less	57 dB or less	57 dB or less	58 dB or less
Input leakage current		5.5 mA or less	6.5 mA or less	9.0 mA or less	11.5 mA or less	14.0 mA or less
Dimensions		Fig. 1	Fig. 2	Fig. 3	Fig. 4	Fig. 5
Mass		26 kg	40 kg	55 kg	70 kg	85 kg
	UPS unit	15 kg 1	15 kg 2	15 kg 3	15 kg 4	15 kg 5
	PDU	10 kg	10 kg	10 kg	10 kg	10 kg
	Floor mounting brackets (Supplied)	0.8 kg	–	–	–	–
Separate options						
Rack support rails(1) (RM039)		2 pairs	3 pairs	4 pairs	5 pairs	6 pairs
Air filter kit(2) (FL011)		1 pc	2 pcs	3 pcs	4 pcs	5 pcs

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

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

Specifications

100 V model

Order no.		S-A11M602A1	S-A11M702A1	S-A11M802A1
Rated output capacity (Apparent power/Active power)	N config.	6.0 kVA / 4.8 kW	7.0 kVA / 5.6 kW	8.0 kVA / 6.4 kW
	N+1 config.	5.0 kVA / 4.0 kW	6.0 kVA / 4.8 kW	7.0 kVA / 5.6 kW
No. of batteries (2 in series)		12	14	16
Battery capacity [Ah cell]		648	756	864
Required capacity	N config.	6.2 kVA or less	7.2 kVA or less	8.2 kVA or less
	N+1 config.	5.2 kVA or less	6.2 kVA or less	7.2 kVA or less
Heat dissipation		790 W	920 W	1050 W
Acoustic noise		58 dB or less	58 dB or less	59 dB or less
Input leakage current		26.0 mA or less	28.5 mA or less	31.0 mA or less
Dimensions		Fig. 6	Fig. 7	Fig. 8
Mass		110 kg	126 kg	142 kg
	UPS unit	16 kg 6	16 kg 7	16 kg 8
	PDU	14 kg	14 kg	14 kg
	Floor mounting brackets (Supplied)	–	–	–
Separate options				
Rack support rails(1) (RM039)		7 pairs	8 pairs	9 pairs
Air filter kit(2) (FL011)		6 pcs	7 pcs	8 pcs

200 V model

Order no.		S-A11M602A2	S-A11M702A2	S-A11M802A2
Rated output capacity (Apparent power/Active power)	N config.	6.0 kVA / 4.8 kW	7.0 kVA / 5.6 kW	8.0 kVA / 6.4 kW
	N+1 config.	5.0 kVA / 4.0 kW	6.0 kVA / 4.8 kW	7.0 kVA / 5.6 kW
No. of batteries (2 in series)		12	14	16
Battery capacity [Ah cell]		648	756	864
Required capacity	N config.	6.2 kVA or less	7.2 kVA or less	8.2 kVA or less
	N+1 config.	5.2 kVA or less	6.2 kVA or less	7.2 kVA or less
Heat dissipation		835 W	972 W	1109 W
Acoustic noise		58 dB or less	58 dB or less	59 dB or less
Input leakage current		16.5 mA or less	19.0 mA or less	21.5 mA or less
Dimensions		Fig. 6	Fig. 7	Fig. 8
Mass		100 kg	115 kg	130 kg
	UPS unit	15 kg 6	15 kg 7	15 kg 8
	PDU	10 kg	10 kg	10 kg
	Floor mounting brackets (Supplied)	–	–	–
Separate options				
Rack support rails(1) (RM039)		7 pairs	8 pairs	9 pairs
Air filter kit(2) (FL011)		6 pcs	7 pcs	8 pcs

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

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

Dimensions (Unit: mm)

Rack mount type

Fig. 1

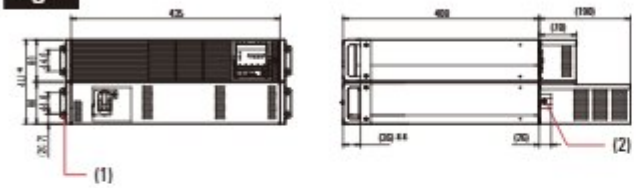


Fig. 2

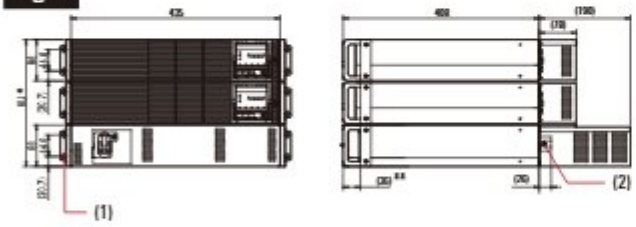


Fig. 3

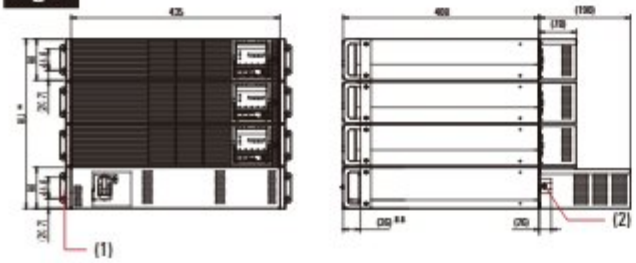


Fig. 4

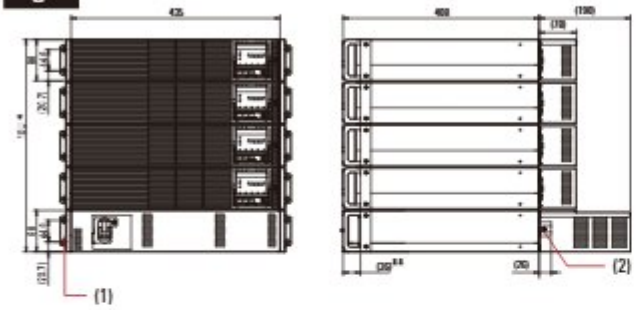
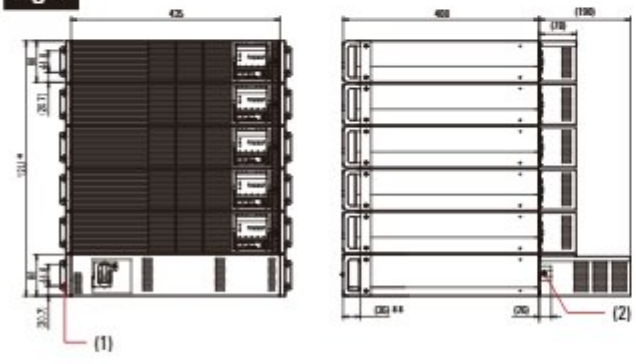


Fig. 5



Free-standing type

Fig. 1

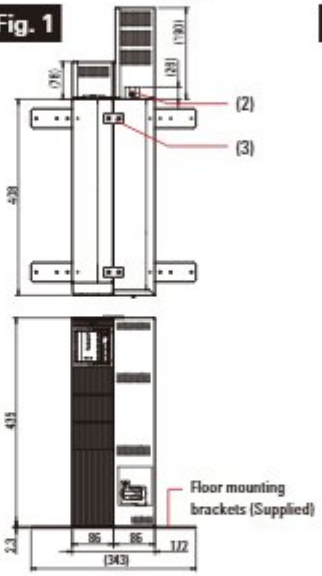


Fig. 2

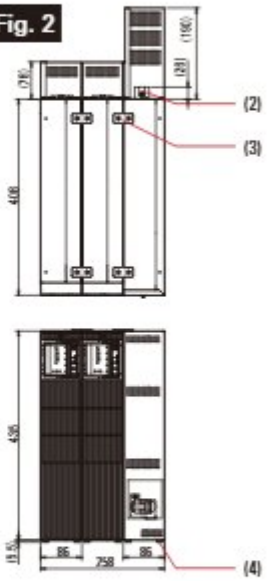


Fig. 3

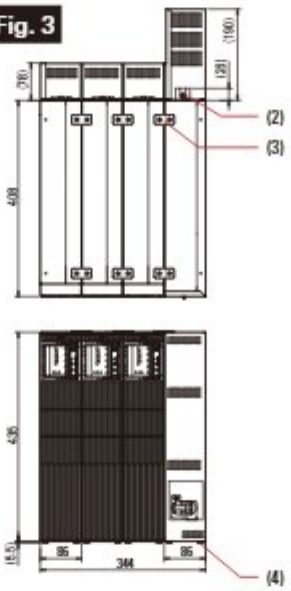


Fig. 4

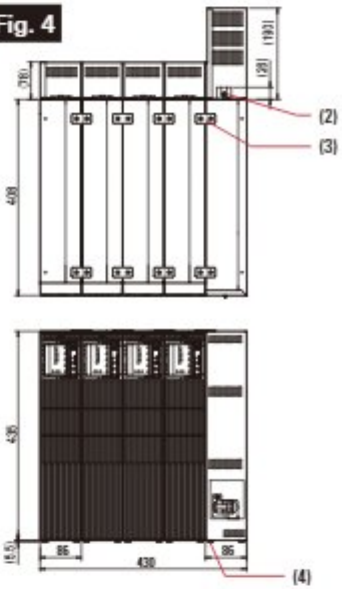
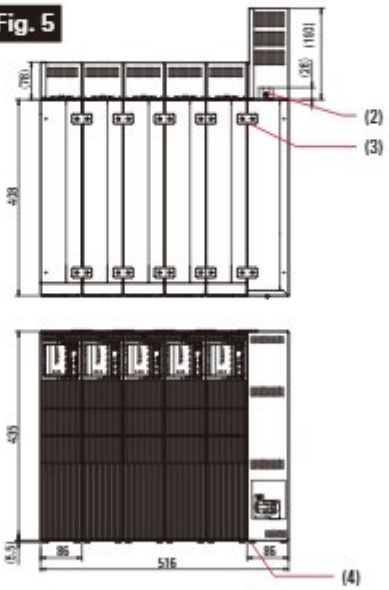


Fig. 5



* Required rack space
** Measured from the rack mounting surface
(1) Rack mounting bracket (2) I/O terminal block (3) Joining bracket (4) Upright installation legs

Dimensions (Unit: mm)

Rack mount type

Fig. 6

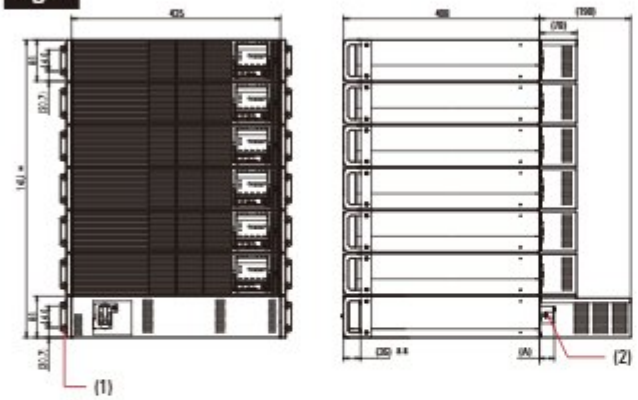


Fig. 7

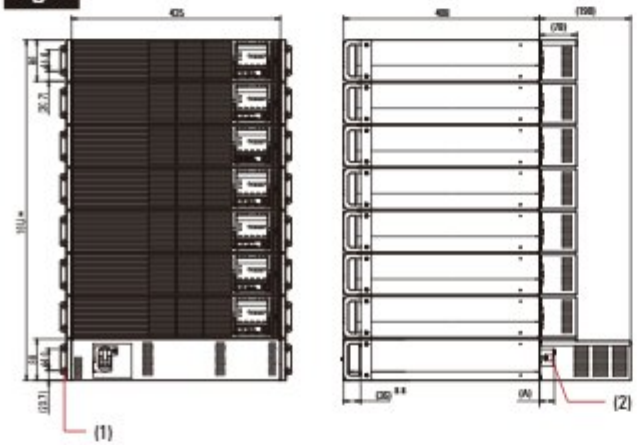
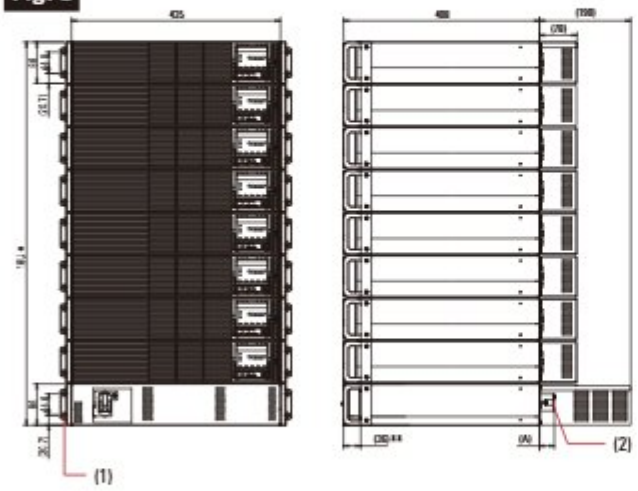


Fig. 8



Free-standing type

Fig. 6

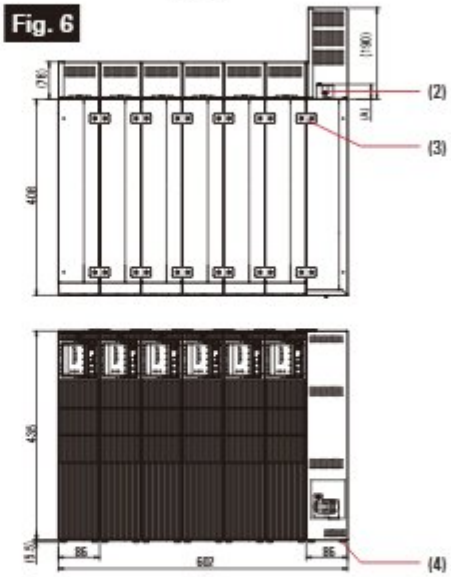


Fig. 7

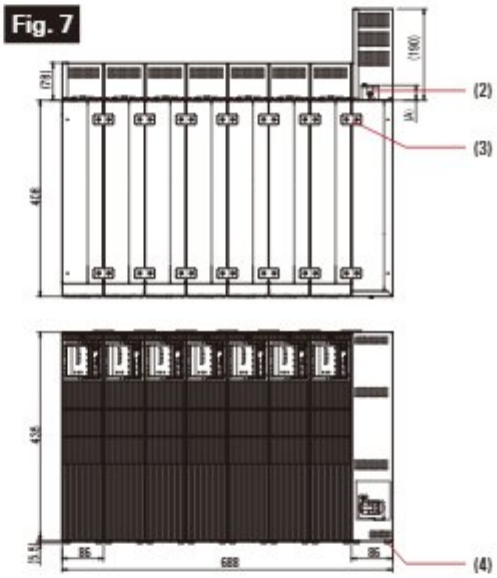
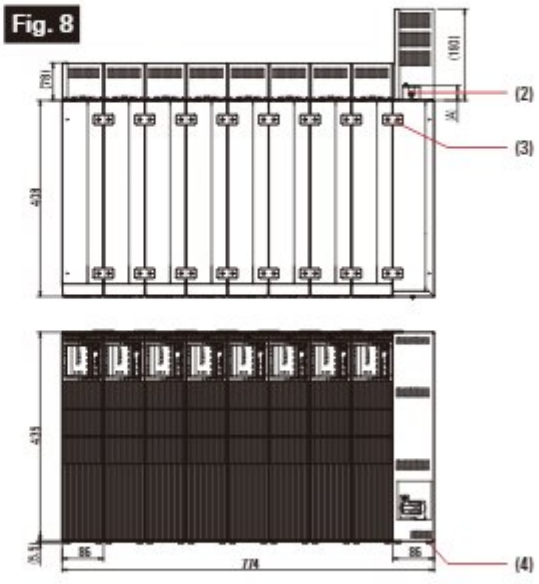


Fig. 8



* Required rack space

** Measured from the rack mounting surface

(1) Rack mounting bracket (2) I/O terminal block (3) Joining bracket (4) Upright installation legs

(A) – 35 for 100 V models, – 26 for 200 V models

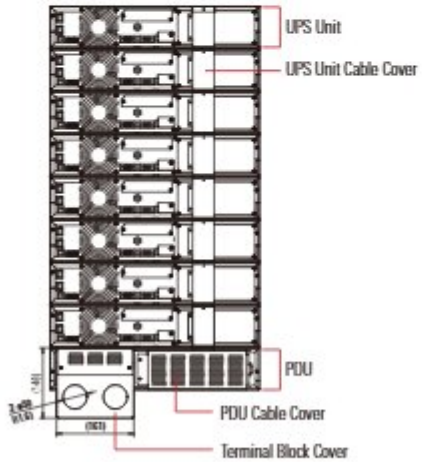
Specifications

UL/CE certified models

Model no.			S-A11M 02A1UJ	S-A11M 02A2UJ	Remarks
Rated output capacity (apparent power / active power)		N config.	1.0 to 8.0 kVA / 0.8 to 6.4 kW		
		N+1 config.	1.0 to 7.0 kVA / 0.8 to 5.6 kW		
Technology	Topology		Double conversion online		
	Cooling system		Forced air cooling		
AC input	No. of phases/wires		Single-phase 2-wire		
	Rated voltage		100/110/115/120 V	200/208/220/230/240 V	Same as AC output
	Voltage range		At load levels < 40%: 55 to 150 V	At load levels < 40%: 110 to 300 V	
			At load levels < 70%: 68 to 140 V	At load levels < 70%: 136 to 280 V	
			At load levels ≥ 70%: 80 to 140 V	At load levels ≥ 70%: 160 to 280 V	
	Rated frequency		50/60 Hz (auto-sensing)		
	Frequency range(2)	Synchronization range	Within 1/3/5% of rated frequency (Factory setting: 3%)		
		Asynchronous operation range	40 to 120 Hz		
	Required capacity	N config.	1.1 to 8.2 kVA		
		N+1 config.	1.2 to 7.2 kVA		
	Input power factor		0.95 or greater		
AC output	No. of phases/wires		Single-phase 2-wire		
	Rated voltage		100/110/115/120 V (Factory setting: 100 V)	200/208/220/230/240 V (Factory setting: 200 V)	User-selectable
	Voltage regulation		Within 2% of rated voltage		
	Rated frequency		50/60 Hz		Same as input frequency
	Frequency regulation	In grid operation	Within 1/3/5% of rated frequency (Factory setting: 3%, during asynchronous operation: 0.5%)		
		In battery operation	Within 0.5% of rated frequency		
	Voltage harmonic distortion	At linear load	3% or less		At rated output
		At rectifier load	8% or less		
	Load power factor	Rated	0.8 lagging (Variation range: 0.7 lagging to 1.0)		
	Transient voltage fluctuation	For abrupt load change	Within 10% of rated voltage (For 0 100% load step changes at rated input)		
		For loss/return of input power	Within 10% of rated voltage (At rated output)		
		For abrupt input voltage change	Within 10% of rated voltage (For 10% abrupt change)		
	Overcurrent protection		Automatic transfer to bypass (With automatic retransfer)		
	Overload capability	Inverter	105% (for 200 ms)		N config.
		Bypass	200% (for 30 s), 800% (for 2 cycles)		N config.
Battery	Type		Small-sized valve-regulated lead-acid (VRLA) battery		
	Battery backup time		3 min (5 min)		
	Expected service life		Approx. 5 years		
	Battery self-test		Every 30/90/180 days or never (Factory setting: 180 days)		User-selectable
Interface	PC port		RS-232C, USB Type B (Cannot be used at the same time)		
	Remote port		Remote ON/OFF		
	Dry contact		Optional dry contact interface card is required		
	Network support		Optional LAN interface card is required		
Operating environment			Ambient temperature: -10 to +40 C , humidity: 20 to 90% RH (non-condensing)		
Expected service life (of the UPS unit excluding battery)			7 years (At a 30°C average ambient temperature. For reference purposes only.)		
Storage environment			Ambient temperature: -15 to +60 C, humidity: 20 to 90% RH (non-condensing)		
EMC standard			Compliant with VCCI32-1 Class A Self-declared for FCC Part15 Subpart B Class A, EN 62040-2 C2:2010, EN 55032:2015 Class A, EN 62040-2:2006, EN 55035:2017/A11:2020		

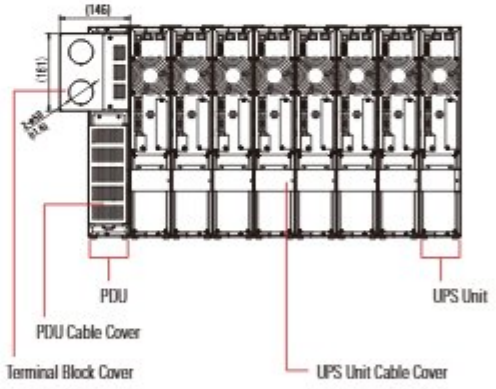
(1) If AC input is single-point grounded, connect the grounded phase of the AC input to the S or N terminal.
(2) The inverter is synchronized with AC input and allows an uninterrupted transfer to bypass provided that the input frequency is within ±3% of the rated frequency (1, 3, or 5% selectable).
(3) Max. capacity during battery recovery charging
(4) At 25°C ambient temperature and 0.8 load power factor, using new, fully charged batteries. In parentheses are values at a 0.7 load power factor.
(5) Use of USB interface requires driver installation.
(6) Battery charging will stop when battery temperature exceeds +40°C.
(7) Avoid use or storage in 30°C or higher temperatures for extended periods of time, or the battery life will shorten. When a UPS is stored without being operated for a long period, the batteries require recharging once every six months.

Rack mount type (Rear view)



8 kVA model

Free-standing type (Rear view)



Specifications

UL/CE certified models 100 V model

Order no.		S-A11M102A1UJ	S-A11M202A1UJ	S-A11M302A1UJ	S-A11M402A1UJ	S-A11M502A1UJ
Rated output capacity (Apparent power/Active power)	N config.	1.0 kVA / 0.8 kW	2.0 kVA / 1.6 kW	3.0 kVA / 2.4 kW	4.0 kVA / 3.2 kW	5.0 kVA / 4.0 kW
	N+1 config.	–	1.0 kVA / 0.8 kW	2.0 kVA / 1.6 kW	3.0 kVA / 2.4 kW	4.0 kVA / 3.2 kW
No. of batteries (2 in series)		2	4	6	8	10
Battery capacity [Ah cell]		108	216	324	432	540
Required capacity	N config.	1.1 kVA or less	2.1 kVA or less	3.1 kVA or less	4.2 kVA or less	5.2 kVA or less
	N+1 config.	–	1.2 kVA or less	2.2 kVA or less	3.2 kVA or less	4.2 kVA or less
Heat dissipation		140 W	275 W	410 W	545 W	680 W
Acoustic noise		54 dB or less	57 dB or less	57 dB or less	57 dB or less	58 dB or less
Input leakage current		13.5 mA or less	16.0 mA or less	18.5 mA or less	21.0 mA or less	23.5 mA or less
Dimensions		Fig. 9	Fig. 10	Fig. 11	Fig. 12	Fig. 13
Mass		30 kg	45 kg	61 kg	77 kg	93 kg
UPS unit		16 kg 1	16 kg 2	16 kg 3	16 kg 4	16 kg 5
PDU		13 kg	13 kg	13 kg	13 kg	13 kg
Floor mounting brackets (Supplied)		0.8 kg	–	–	–	–
Separate options						
Rack support rails[1] (RM039)		2 pairs	3 pairs	4 pairs	5 pairs	6 pairs
Air filter kit[2] (FL011)		1 pc	2 pcs	3 pcs	4 pcs	5 pcs

UL/CE certified models 200 V model

Order no.		S-A11M102A2UJ	S-A11M202A2UJ	S-A11M302A2UJ	S-A11M402A2UJ	S-A11M502A2UJ
Rated output capacity (Apparent power/Active power)	N config.	1.0 kVA / 0.8 kW	2.0 kVA / 1.6 kW	3.0 kVA / 2.4 kW	4.0 kVA / 3.2 kW	5.0 kVA / 4.0 kW
	N+1 config.	–	1.0 kVA / 0.8 kW	2.0 kVA / 1.6 kW	3.0 kVA / 2.4 kW	4.0 kVA / 3.2 kW
No. of batteries (2 in series)		2	4	6	8	10
Battery capacity [Ah cell]		108	216	324	432	540
Required capacity	N config.	1.1 kVA or less	2.1 kVA or less	3.1 kVA or less	4.2 kVA or less	5.2 kVA or less
	N+1 config.	–	1.2 kVA or less	2.2 kVA or less	3.2 kVA or less	4.2 kVA or less
Heat dissipation		150 W	287 W	424 W	561 W	698 W
Acoustic noise		54 dB or less	57 dB or less	57 dB or less	57 dB or less	58 dB or less
Input leakage current		5.5 mA or less	6.5 mA or less	9.0 mA or less	11.5 mA or less	14.0 mA or less
Dimensions		Fig. 9	Fig. 10	Fig. 11	Fig. 12	Fig. 13
Mass		27 kg	41 kg	56 kg	71 kg	86 kg
UPS unit		15 kg 1	15 kg 2	15 kg 3	15 kg 4	15 kg 5
PDU		11 kg	11 kg	11 kg	11 kg	11 kg
Floor mounting brackets (Supplied)		0.8 kg	–	–	–	–
Separate options						
Rack support rails[1] (RM039)		2 pairs	3 pairs	4 pairs	5 pairs	6 pairs
Air filter kit[2] (FL011)		1 pc	2 pcs	3 pcs	4 pcs	5 pcs

(1) Used for mounting the UPS on an EIA standard 19-inch rack. Prior to purchase, check that the rails are mountable to your 19-inch rack.
(2) A front side air intake filter for preventing dust ingress.

Specifications

UL/CE certified models 100 V model

Order no.		S-A11M602A1UJ	S-A11M702A1UJ	S-A11M802A1UJ
Rated output capacity (Apparent power/Active power)	N config.	6.0 kVA / 4.8 kW	7.0 kVA / 5.6 kW	8.0 kVA / 6.4 kW
	N+1 config.	5.0 kVA / 4.0 kW	6.0 kVA / 4.8 kW	7.0 kVA / 5.6 kW
No. of batteries (2 in series)		12	14	16
Battery capacity [Ah cell]		648	756	864
Required capacity	N config.	6.2 kVA or less	7.2 kVA or less	8.2 kVA or less
	N+1 config.	5.2 kVA or less	6.2 kVA or less	7.2 kVA or less
Heat dissipation		790 W	920 W	1050 W
Acoustic noise		58 dB or less	58 dB or less	59 dB or less
Input leakage current		26.0 mA or less	28.5 mA or less	31.0 mA or less
Dimensions		Fig. 14	Fig. 15	Fig. 16
Mass		111 kg	127 kg	143 kg
	UPS unit	16 kg 6	16 kg 7	16 kg 8
	PDU	15 kg	15 kg	15 kg
	Floor mounting brackets (Supplied)	–	–	–
Separate options				
Rack support rails(1) (RM039)		7 pairs	8 pairs	9 pairs
Air filter kit(2) (FL011)		6 pcs	7 pcs	8 pcs

UL/CE certified models 200 V model

Order no.		S-A11M602A2UJ	S-A11M702A2UJ	S-A11M802A2UJ
Rated output capacity (Apparent power/Active power)	N config.	6.0 kVA / 4.8 kW	7.0 kVA / 5.6 kW	8.0 kVA / 6.4 kW
	N+1 config.	5.0 kVA / 4.0 kW	6.0 kVA / 4.8 kW	7.0 kVA / 5.6 kW
No. of batteries (2 in series)		12	14	16
Battery capacity [Ah cell]		648	756	864
Required capacity	N config.	6.2 kVA or less	7.2 kVA or less	8.2 kVA or less
	N+1 config.	5.2 kVA or less	6.2 kVA or less	7.2 kVA or less
Heat dissipation		835 W	972 W	1109 W
Acoustic noise		58 dB or less	58 dB or less	59 dB or less
Input leakage current		16.5 mA or less	19.0 mA or less	21.5 mA or less
Dimensions		Fig. 14	Fig. 15	Fig. 16
Mass		101 kg	116 kg	131 kg
	UPS unit	15 kg 6	15 kg 7	15 kg 8
	PDU	11 kg	11 kg	11 kg
	Floor mounting brackets (Supplied)	–	–	–
Separate options				
Rack support rails(1) (RM039)		7 pairs	8 pairs	9 pairs
Air filter kit(2) (FL011)		6 pcs	7 pcs	8 pcs

(1) Used for mounting the UPS on an EIA standard 19-inch rack. Prior to purchase, check that the rails are mountable to your 19-inch rack.
(2) A front side air intake filter for preventing dust ingress.

Dimensions (Unit: mm)

Rack mount type

Fig. 9

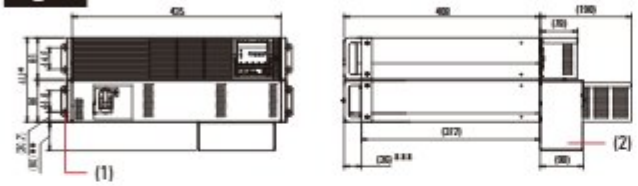


Fig. 10

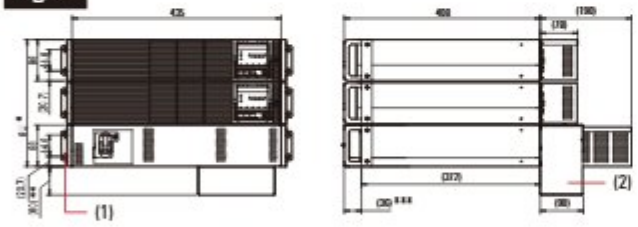


Fig. 11

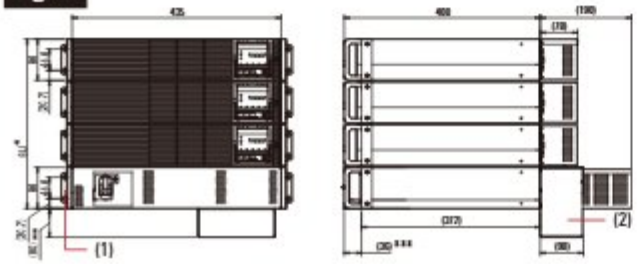


Fig. 12

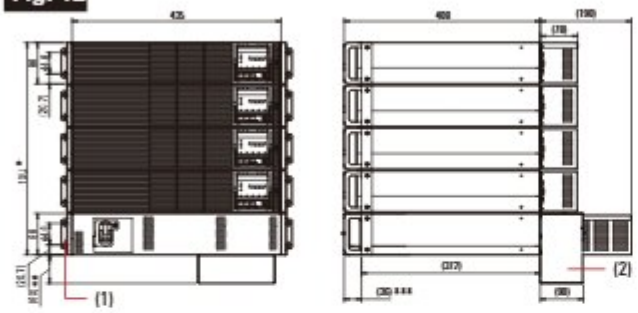
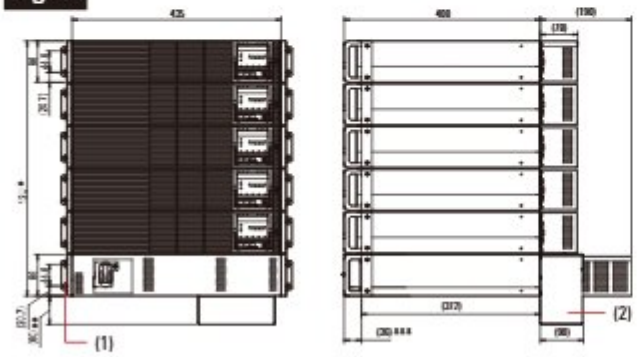


Fig. 13



Free-standing type

Fig. 9

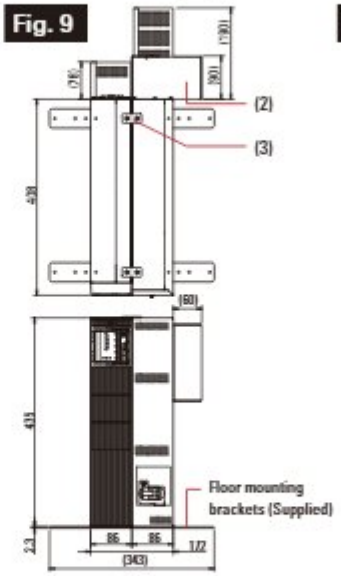


Fig. 10

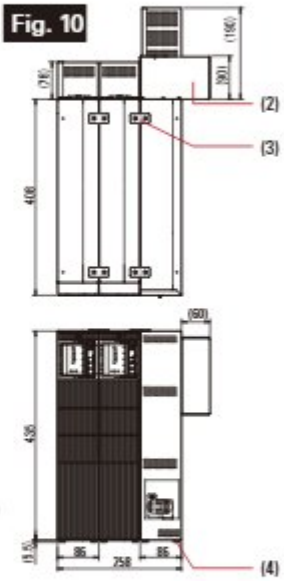


Fig. 11

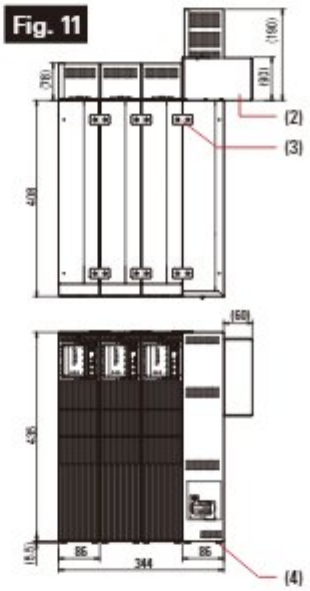


Fig. 12

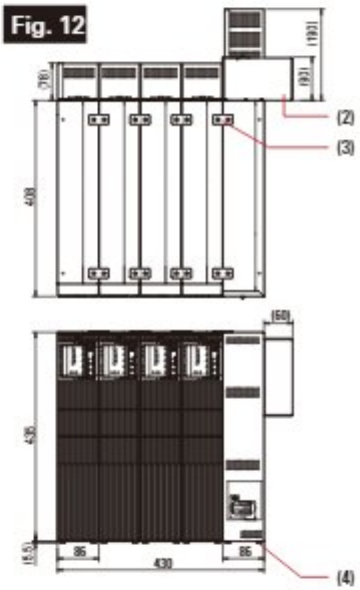
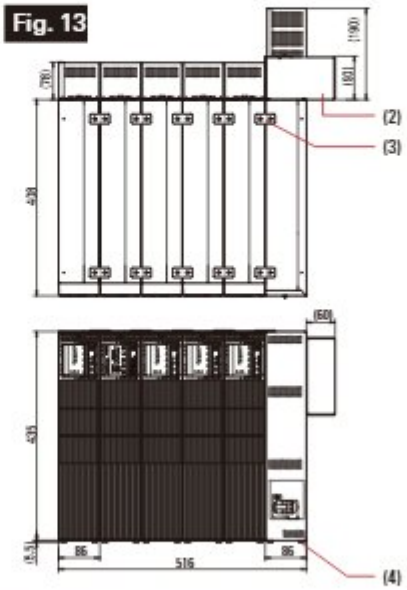


Fig. 13



* Required rack space

** Besides the required rack space, an additional 60 mm space needs to be secured below a PDU for a terminal block cover.

*** Measured from the rack mounting surface

**** Use rack support rails whose weight-bearing parts are 365 mm or less in length from the mounting surface.

(1) Rack mounting bracket (2) Terminal block cover (3) Joining bracket (4) Upright installation legs

Dimensions (Unit: mm)

Rack mount type

Fig. 14

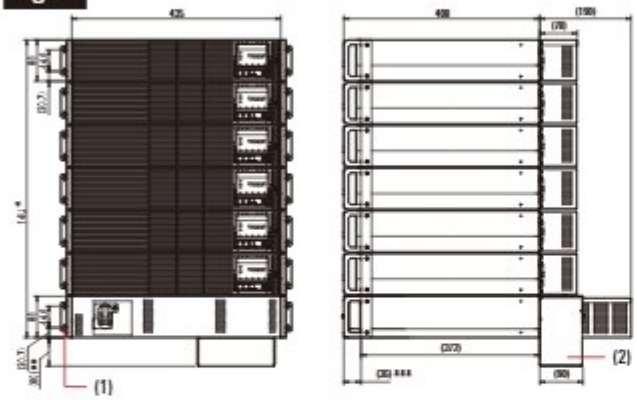


Fig. 15

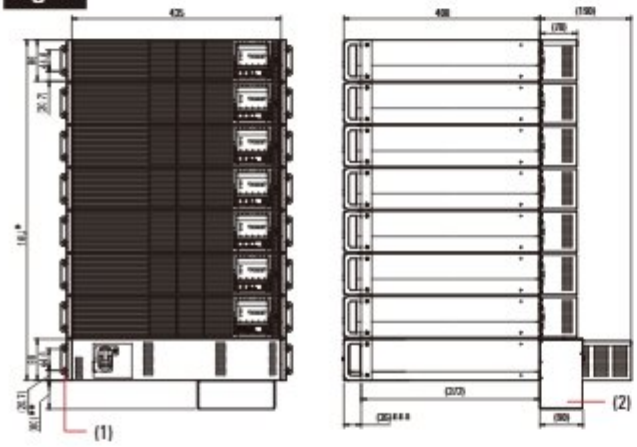
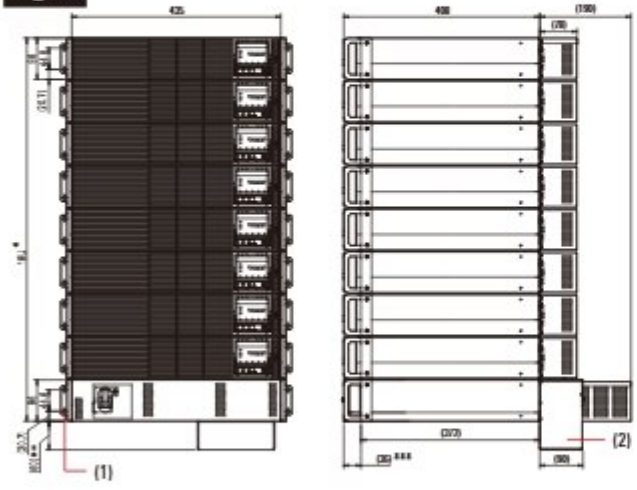


Fig. 16



Free-standing type

Fig. 14

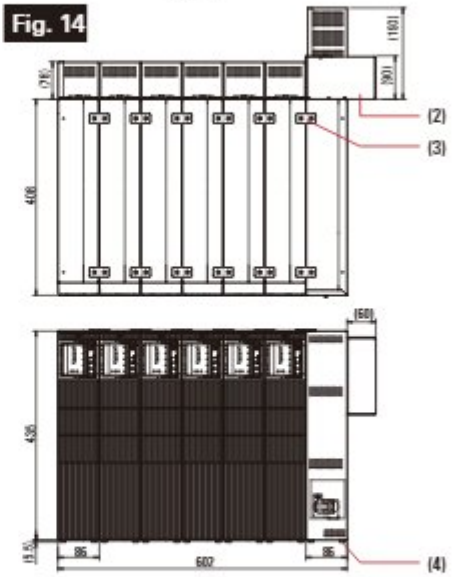


Fig. 15

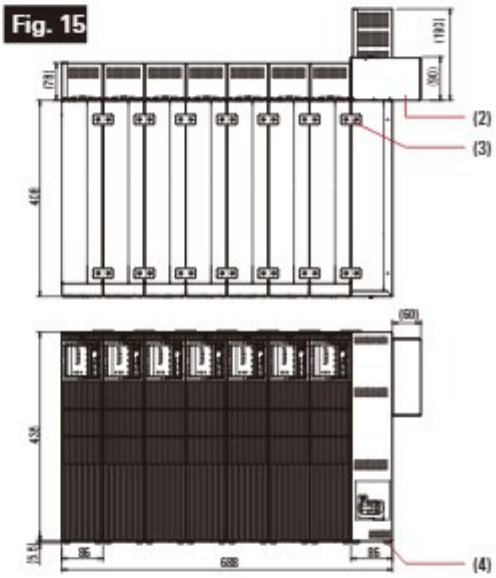
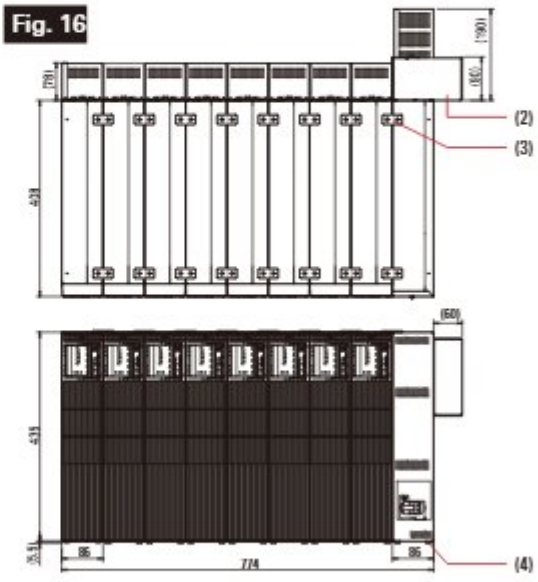


Fig. 16



* Required rack space

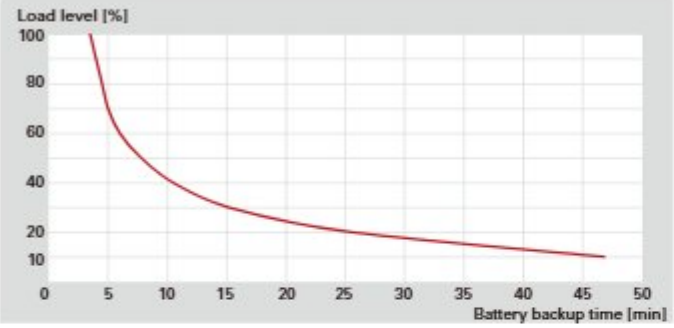
** Besides the required rack space, an additional 60 mm space needs to be secured below a PDU for a terminal block cover.

*** Measured from the rack mounting surface

**** Use rack support rails whose weight-bearing parts are 365 mm or less in length from the mounting surface.

(1) Rack mounting bracket (2) Terminal block cover (3) Joining bracket (4) Upright installation legs

Load Level vs Backup Time



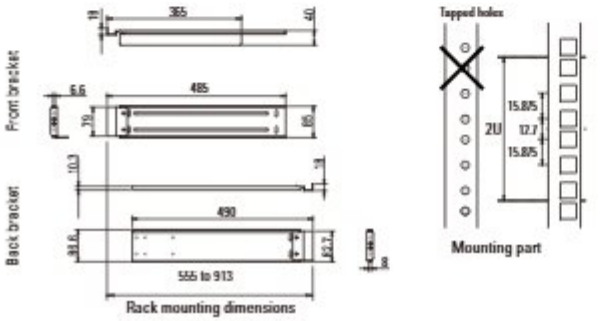
Note: Reference value at a 25°C ambient temperature and load power factor of 0.8, using new, fully charged batteries.

Dimensions of Options (Unit: mm)

Rack support rails

Used for mounting the UPS in an EIA standard 19-inch rack. (A pair of left and right rails. Shown below is the left rail.)
They are not compatible with racks with tapped holes.

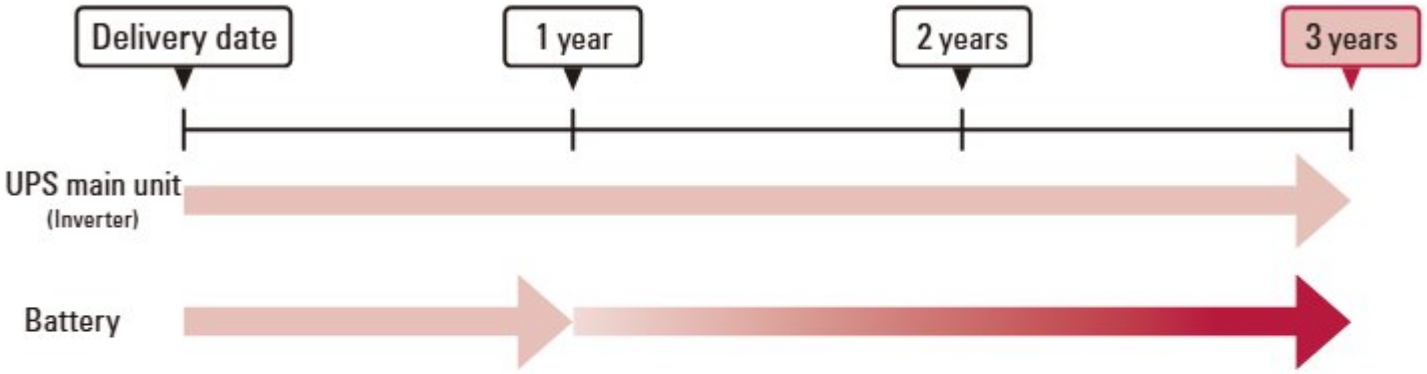
RM039 2U



Mass: Approx. 1.35 kg
(2.7 kg for a pair of left and right rails)

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

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

ECO PRODUCTS are designed to reduce the environmental impacts throughout the product's life cycle. Ranging from design to manufacturing stages, the environmental impact of a product and its packaging materials is assessed against the eco-design requirements. Those products that satisfy the requirements 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, confirm that the total battery capacity in one location does not exceed 4,800 Ah-cell. In other cases, consult with your local fire department for approval.

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.

Refrain from modifying or processing the product 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 maintenance support period after discontinuation is 6 years.

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.

Products that have lithium-ion batteries listed in the catalog cannot be transported by air. When transporting by sea, transport must be carried out according to the International Maritime Dangerous Goods (IMDG) Code. Also, some countries and regions have their own regulations, 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.P1042B004 '23.10