

SANUPS

HYBRID UPS

E11A



SANYO DENKI

E11A

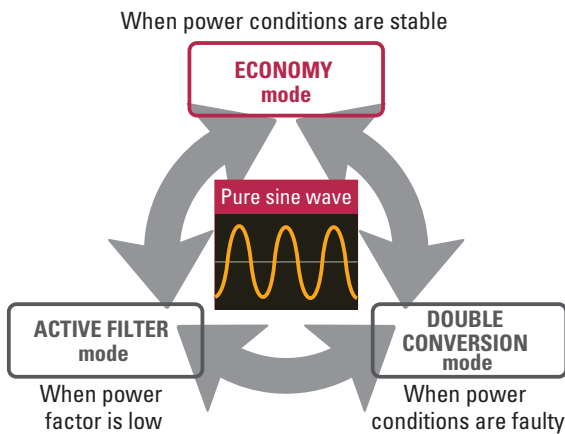


1 Energy Saving

- This UPS delivers a conversion efficiency of 95%.*
- The Hybrid type SANUPS E11A automatically selects the most efficient mode of operation for any given power condition.**

* For 1 kVA model at Economy mode

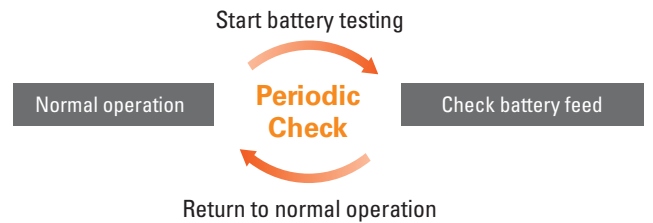
** The modes of operation other than Active Filter mode can be fixed manually.



2 Automatic Battery Test

- Battery self-tests can be performed automatically at regular intervals, ensuring reliable UPS operation in the event of a power failure.
- Battery testing requires no power interruption to loads.

Note: Battery test interval can be set by the user.



3 Easy Maintenance

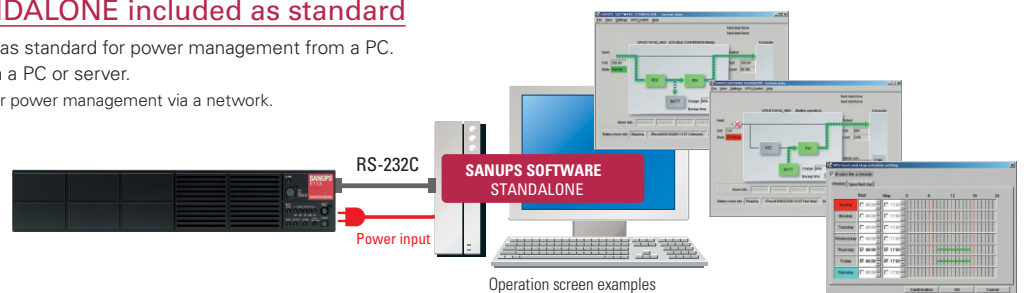
- Front-access module design allows users to easily replace battery packs even during inverter operation.

Note: For battery replacement of 0.35 kVA and UL/CE models, please consult us.

SANUPS SOFTWARE STANDALONE included as standard

A power management software is included as standard for power management from a PC. UPS status can be checked at a glance from a PC or server.

Note: Optional network solutions are available for power management via a network.



Battery Cold Start Function

Batteries can start up the UPS even when commercial AC power is not available, delivering inverter output power.

Installation examples



Mountable in an EIA standard 19-inch rack

Rack-mounting brackets are included as standard with 1 to 3 kVA models. Rack support rail is optional.



Vertical installation

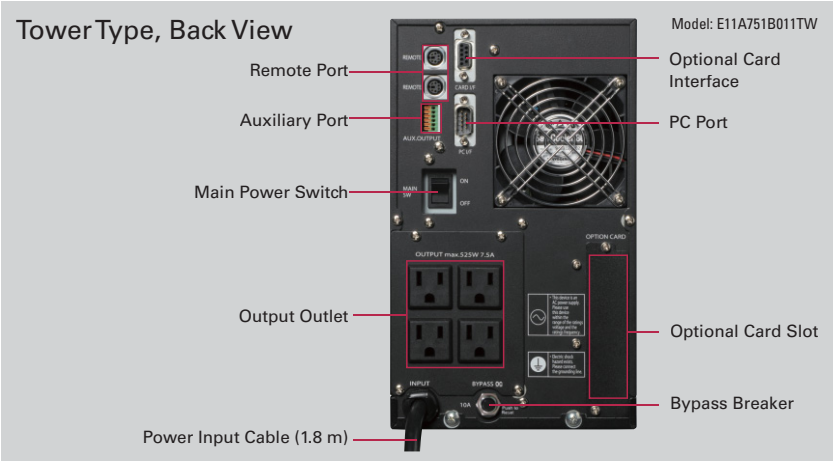
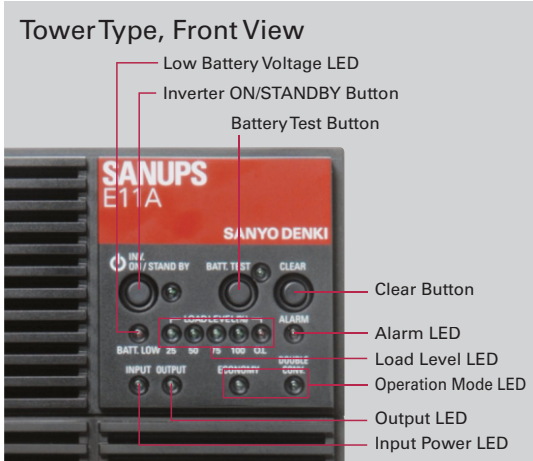
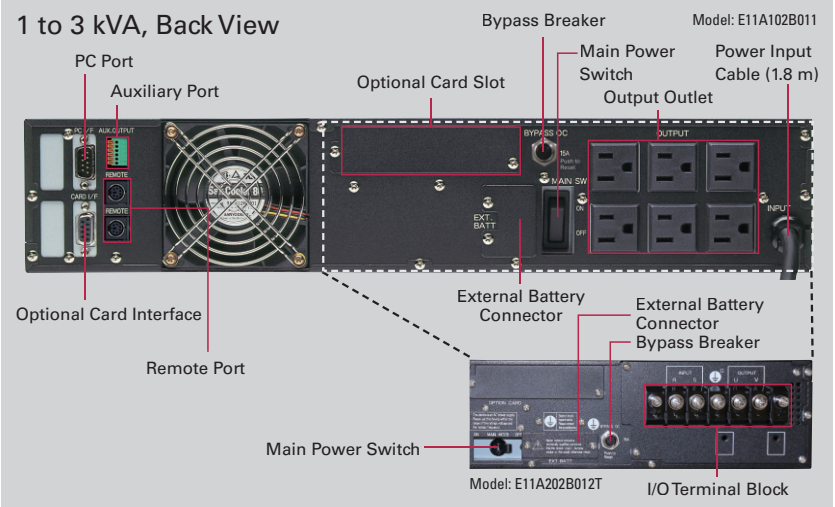
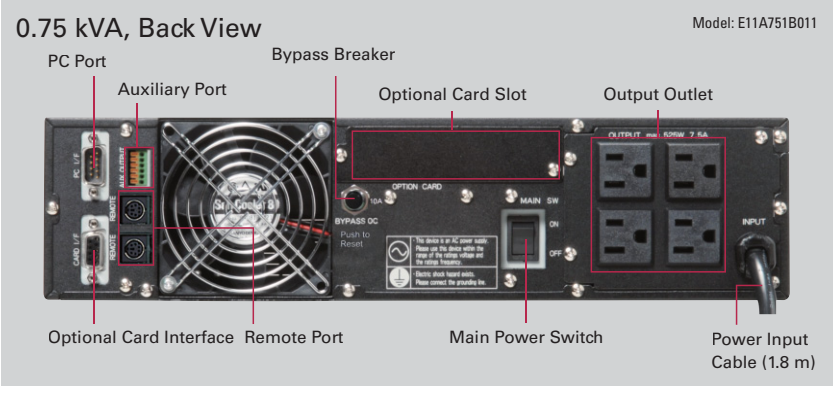
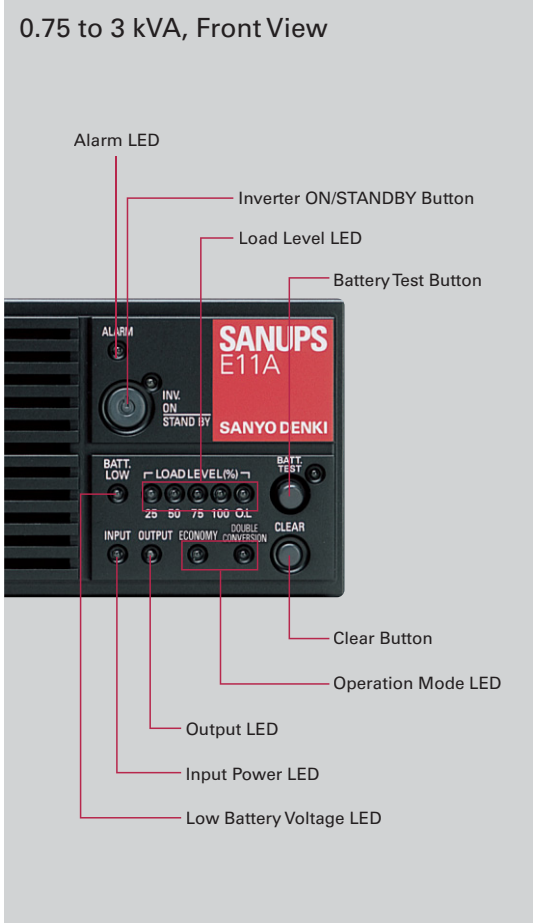
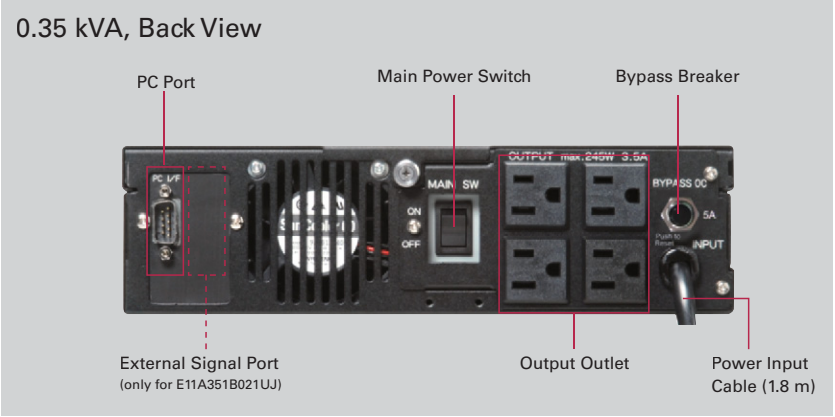
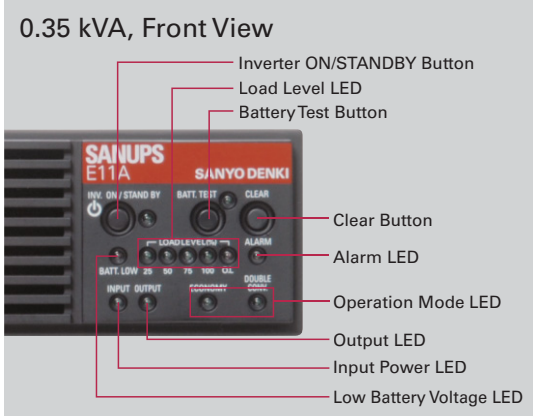
A set of vertical stands is included with 0.75 to 2 kVA models, and a set of floor mounting brackets is included with 0.35 and 3 kVA models for vertical installation.

Lineup:

[No. of phases/wires] Input/Output voltage	Output capacity		Battery backup time		Rack mount type	Tower type	Terminal block I/O	UL/CE certification	Model no.	Page		
	(kVA)	(kW)	Standard	Available options*						Specifications	Dimensions	
[Single-phase 2-wire] 100 V model 100/110/115/120 V	0.35	0.245	6 min	-	-	-	-	✓	E11A351B001UJ	p. 6	p. 10	
								✓	E11A351B021UJ	p. 6	p. 10	
	0.75	0.525	6 min	-	-	✓	-	-	✓	E11A751B001UJ	p. 6	p. 10
									✓	E11A751B011UJ	p. 6	p. 10
									✓	E11A751B021UJ	p. 6	p. 10
						-	✓	-	✓	E11A751B001TWUJ	p. 6	p. 10
									✓	E11A751B011TWUJ	p. 6	p. 10
									✓	E11A751B021TWUJ	p. 6	p. 10
	1	0.7	5 min	20, 30, 40, 60 min	✓	-	-	✓	E11A102B001UJ	p. 7	p. 10	
								✓	E11A102B011UJ	p. 7	p. 10	
				-	✓	-	✓	E11A102B001TWUJ	p. 7	p. 10		
							✓	E11A102B011TWUJ	p. 7	p. 10		
							✓	E11A102B021TWUJ	p. 7	p. 10		
							✓	E11A102B011TWUJ	p. 7	p. 10		
	1.5	1.05	5 min	20, 30, 40, 60 min	✓	-	-	-	E11A152B001	p. 7	p. 10	
								-	E11A152B011	p. 7	p. 10	
								✓	E11A152B001UJ	p. 7	p. 10	
								✓	E11A152B011UJ	p. 7	p. 10	
				-	-	✓	-	-	E11A152B001TW	p. 8	p. 10	
								-	E11A152B011TW	p. 8	p. 10	
								-	E11A152B021TW	p. 8	p. 10	
								✓	E11A152B001TWUJ	p. 8	p. 10	
	✓	E11A152B011TWUJ	p. 8	p. 10								
	✓	E11A152B021TWUJ	p. 8	p. 10								
2	1.4	5 min	20, 30, 40, 60 min	✓	-	-	-	E11A202B001	p. 8	p. 10		
							-	E11A202B011	p. 8	p. 10		
							✓	E11A202B001UJ	p. 8	p. 10		
							✓	E11A202B011UJ	p. 8	p. 10		
							-	E11A302B001	p. 8	p. 10		
							-	E11A302B011	p. 8	p. 10		
3	2.1	3.5 min	15, 30, 45 min	✓	-	-	✓	E11A302B001UJ	p. 8	p. 10		
							✓	E11A302B011UJ	p. 8	p. 10		
							✓	E11A102B002UJ	p. 9	p. 10		
							✓	E11A102B012UJ	p. 9	p. 10		
[Single-phase 2-wire] 200 V model 200/208/220/230/240 V	1	0.7	5 min	20, 30, 40, 60 min	✓	-	-	✓	E11A202B002UJ	p. 9	p. 10	
								✓	E11A202B012UJ	p. 9	p. 10	
	2	1.4	5 min	20, 30, 40, 60 min	✓	-	✓	-	E11A202B012T	p. 9	p. 10	
								✓	E11A302B002UJ	p. 9	p. 10	
								✓	E11A302B012UJ	p. 9	p. 10	
3	2.1	5 min	20, 30, 40, 60 min	✓	-	✓	-	E11A302B012T	p. 9	p. 10		
							✓	E11A302B012T	p. 9	p. 10		

* For 1 to 3 kVA models other than the tower type, the UPS backup time can be extended by combining optional external battery modules.

Views and Part Names



Note: Above photos are of typical models. Interface specifications may vary by model.

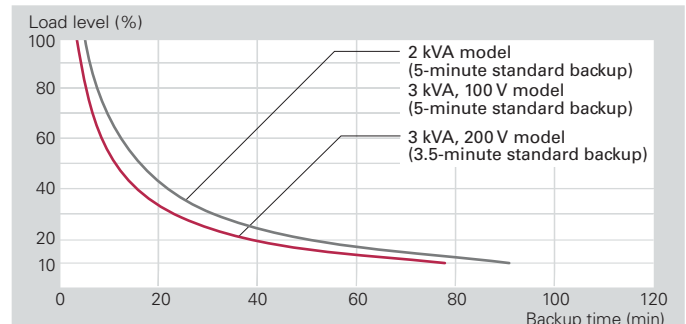
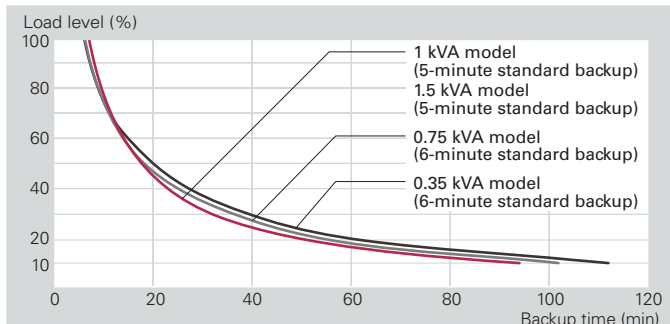
Common Specifications

Operation mode ⁽¹⁾		Economy mode	Active Filter mode	Double Conversion mode	Remarks
Technology	Topology	Hybrid			
	Cooling method	Forced air cooling			
AC input	Number of phases/wires	Single-phase 2-wire			
	Voltage range	Within rated voltage $\pm 8\%$ ($\pm 5\%$ at auto-detection setting)	Within rated voltage $\pm 5\%$	Within rated voltage -20% to +15%	
	Frequency	50/60 Hz			At auto-detection setting
	Frequency range	Within rated frequency $\pm 1, 3, \text{ or } 5\%$ (user settable)		Within rated frequency $\pm 8\%$	
	Input power factor	Same as the load power factor	0.85 or greater	0.95 or greater	When the distortion factor of the input voltage is less than 1%.
AC output	Number of phases/wires	Single-phase 2-wire			
	Rated load power factor	0.7 (lagging)			Variation range: 0.7 (lagging) to 1.0
	Voltage regulation	Within rated voltage -10% to +8% (-7% to +5% at auto-detection setting)	Within rated voltage -7% to +5%	Within rated voltage $\pm 2\%$	Depends on input voltage and load conditions
	Rated frequency	50/60 Hz			Same as the input frequency
	Frequency regulation	At normal operation (utility-synchronous)	Within rated frequency $\pm 1, 3, \text{ or } 5\%$ (user settable)		Within rated frequency $\pm 1\%$
		At battery power operation	—		Within rated frequency $\pm 0.5\%$
	Transient voltage regulation	Abrupt input voltage change	—		Within rated voltage $\pm 5\%$
Abrupt load change		—		Within rated voltage $\pm 5\%$	
Overload capability	200% (30 s)	—		105% (200 ms)	
	800% (2 cycles)	—		—	
Battery	Type	Small-sized valve-regulated lead-acid (VRLA) battery			
	Expected life	Approx. 5 years			At 25°C ambient temperature, under initial battery conditions
Operating environment		Temperature: 0 to 40°C; Humidity: 20 to 90% RH (non-condensing)			
Safety standard		UL 1778 5th edition (E226092), CSA C22.2 No. 107.3-14 (3rd edition), CE marking (EN 62040-1:2008/A1:2013)			
EMC standard	Emission (noise)	0.35 to 1 kVA: EN 62040-2 C2:2006, 2 to 3 kVA: EN 62040-2 C3:2006, EN 55022:2006 Class A (FCC Part 15 Subpart B Class A, CISPR 22 Class A, VCCI Class A)			200 V models are compliant with VCCI
	Immunity	EN 62040-2:2006, EN 55024:2010			

⁽¹⁾ A momentary power interruption lasting less than 5 ms occurs when switching to battery operation from Economy mode or Active Filter mode. Please fix the operation mode to Double Conversion mode for applications that require uninterrupted transfers.

⁽²⁾ Maximum capacity in fully charged battery state

Load Level vs Backup Time



Note: Reference values at 25°C ambient temperature and a load power factor of 0.7, under new, fully charged battery conditions.

Network Options

Item	Model	Description
LAN interface card	IPv6 model	PRLANIF011 This card enables 24/7 monitoring of UPS operations and status, and e-mail notifications to system administrators via network in the event of a power failure.
	Environment monitoring, IPv6 model	PRLANIF013 Combined with our temperature sensor (PRLANSN001) and humidity sensor (PRLANSN002), this model enables you to monitor UPS ambient temperature and humidity.
Dry contact interface card	Terminal block output	PRCONIF001 This card outputs no-voltage signals to notify UPS status.
	D-sub connector	PRCONIF003 A and B contacts can be selected for each signal.
SANUPS SOFTWARE	Windows version, IPv6 model	PMS50□00⁽²⁾ This is a UPS power management software via network from the installed computer. For updated OS support information, please refer to our website.
	Multi-OS version ⁽¹⁾ , IPv6 model	PMS51□00⁽²⁾ For bulk purchase of software licenses, append appropriate -suffix to model number.
Remote switch	RSW011 (cable length: 10 m) RSW013 (cable length: 2 m)	This switch remotely turns on/off outlets of the UPS via wired connection. It is capable of managing the switching of up to 5 UPS units in Linked Operation (An optional Linked Operation cable is needed)
Linked Operation cable	P10197 (1 m); P10198 (3 m)	A unit-to-unit cable for performing on/off switching of multiple UPS units.

⁽¹⁾ Supports Windows, Unix, and Linux.

⁽²⁾ The □'s denote revision characters.

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

Specifications

100 V model 0.35 kVA capacity

Model no.	E11A351B001UJ		E11A351B021UJ		
Rated power capacity (Apparent power / Active power)	0.35 kVA / 0.245 kW (Watts value at a load power factor of 0.7)				
AC input	Rated voltage	100/110/115/120 V (User settable. Factory setting: 100 V)			
	Input plug	NEMA 5-15P			
AC output	Rated voltage	100/110/115/120 V (User settable. Factory setting: 100 V)			
	Overcurrent protection ⁽¹⁾	Breaker protection			
	Voltage harmonic distortion ⁽²⁾	At linear load	3%		
		At rectifier load	8% (at 100% rectifier load)		
Output receptacle	NEMA 5-15R (× 4)				
Battery	Backup time	6 min (at 25°C ambient temperature and rated output, under initial battery conditions)			
Interface	PC port	RS-232C			
	Remote port ⁽³⁾	—	—	—	
	Auxiliary port (EPO)	—	—	—	
	Optional card interface	Dry contact ⁽⁴⁾	—	—	— ⁽⁴⁾
		LAN card ⁽⁵⁾	—	—	—
	Output Line Control contact	—	—	—	
UL/CE certification	✓				
Acoustic noise	40 dB or less (1 m from front of UPS, A-weighted)				
Heat dissipation ⁽²⁾	59 W				
Compatible options					
Outlet box ⁽⁷⁾	—				
Rack support rail ⁽⁸⁾	—				
Floor mounting brackets ⁽⁹⁾	—				
Air filter ⁽¹⁰⁾	FL003				
Replacement battery pack					
For internal battery	—				

100 V model 0.75 kVA capacity

Model no.	E11A751B001UJ	E11A751B011UJ	E11A751B021UJ	E11A751B001TWUJ	E11A751B011TWUJ	E11A751B021TWUJ	
Rated power capacity (Apparent power / Active power)	0.75 kVA / 0.525 kW (Watts value at a load power factor of 0.7)						
AC input	Rated voltage	100/110/115/120 V (User settable. Factory setting: 100 V)					
	Input plug	NEMA 5-15P					
AC output	Rated voltage	100/110/115/120 V (User settable. Factory setting: 100 V)					
	Overcurrent protection ⁽¹⁾	Breaker protection					
	Voltage harmonic distortion ⁽²⁾	At linear load	3%				
		At rectifier load	8% (at 100% rectifier load)				
Output receptacle	NEMA 5-15R (× 4)						
Battery	Backup time	6 min (at 25°C ambient temperature and rated output, under initial battery conditions)					
Interface	PC port	RS-232C					
	Remote port ⁽³⁾	—	✓	—	—	✓	
	Auxiliary port (EPO)	—	✓	—	—	✓	
	Optional card interface	Dry contact ⁽⁴⁾	—	✓	✓	—	✓
		LAN card ⁽⁵⁾	✓	✓	✓	✓	✓
	Output Line Control contact	—	✓	—	—	✓	—
UL/CE certification	✓						
Acoustic noise	40 dB or less (1 m from front of UPS, A-weighted)						
Heat dissipation ⁽²⁾	111 W						
Compatible options							
Outlet box ⁽⁷⁾	—	P10037	—	—	P10037	—	
Rack support rail ⁽⁸⁾	RME11A751A00	—	—	—	—	—	
Floor mounting brackets ⁽⁹⁾	FMA11F00	—	—	FME11AA03	—	—	
Air filter ⁽¹⁰⁾	FL002	—	—	FL004	—	—	
Replacement battery pack							
For internal battery	BPE11A751A00	—	—	BPE11A751A01	—	—	

⁽¹⁾ At Double Conversion mode, the UPS transfers to bypass operation with no interruption (auto-return). This auto-return setting can be disabled.
⁽²⁾ Value at Double Conversion mode, rated output, after battery charging completed
⁽³⁾ Remote ON/OFF switch (management of the switching of up to 5 UPS units is possible in Linked Operation)
⁽⁴⁾ Transistor output available
⁽⁵⁾ If using as a no-voltage contact output, an optional dry contact interface card is required.
⁽⁶⁾ Optional LAN interface card is required.
⁽⁷⁾ Enables Output Line Control, the coordinated on/off management of UPS outlets. Output 0: constant output; output 1 and 2: controlled output.
⁽⁸⁾ Used for mounting the UPS on a standard 19-inch rack.
⁽⁹⁾ Brackets for mounting the UPS to the floor.
⁽¹⁰⁾ Front side air intake filter to prevent dust ingress.

Model Numbering System

E11A 102 B 00 1 TW UJ

- E11A** ... Model
- 102** ... UPS Output Capacity
- B** ... Interface Specification
- 00** ... Standard
- 01** ... Type C (Enhanced functions)
- 02** ... External signal control capability (Transistor output)
- 1** ... Voltage Specification
- 1** ... 100 V model
- 2** ... 200 V model
- TW** ... Tower type
- T** ... Terminal block input/output
- UJ** ... UL listed model

Revision Character

100 V model 1 kVA capacity

Model no.	E11A102B001UJ	E11A102B011UJ	E11A102B001TWUJ	E11A102B011TWUJ	E11A102B021TWUJ	
Rated power capacity (Apparent power / Active power)	1 kVA / 0.7 kW (Watts value at a load power factor of 0.7)					
AC input	Rated voltage	100/110/115/120 V (User settable. Factory setting: 100 V)				
	Input plug	NEMA 5-15P				
AC output	Rated voltage	100/110/115/120 V (User settable. Factory setting: 100 V)				
	Overcurrent protection ⁽¹⁾	Breaker protection				
	Voltage harmonic distortion ⁽²⁾	At linear load	3%			
		At rectifier load	7% (at 100% rectifier load)			
Output receptacle	NEMA 5-15R (× 6)		NEMA 5-15R (× 4)			
Battery	Backup time	5 min (at 25°C ambient temperature and rated output, under initial battery conditions)				
Interface	PC port	RS-232C				
	Remote port ⁽³⁾	—	✓	—	✓	
	Auxiliary port (EPO)	—	✓	—	✓	
	Optional card interface	Dry contact ⁽⁵⁾	—	✓	—	✓
		LAN card ⁽⁶⁾	✓	✓	✓	✓
Output Line Control contact	—	✓	—	✓	—	
UL/CE certification	✓	✓	✓	✓	✓	
Acoustic noise	40 dB or less (1 m from front of UPS, A-weighted)					
Heat dissipation ⁽⁷⁾	125 W					
Compatible options						
Outlet box ⁽⁷⁾	—	P10037	—	P10037	—	
Rack support rail ⁽⁸⁾	RM030					
Floor mounting brackets ⁽⁹⁾	FMA11F00		FME11AA04			
Air filter ⁽¹⁰⁾	FL001		FL004			
Replacement battery pack						
For internal battery	BPE11A102A00		BPE11A102A02			

100 V model 1.5 kVA capacity

Tower type in the next page

Model no.	E11A152B001	E11A152B011	E11A152B001UJ	E11A152B011UJ	
Rated power capacity (Apparent power / Active power)	1.5 kVA / 1.05 kW (Watts value at a load power factor of 0.7)				
AC input	Rated voltage	100/110/115/120 V (User settable. Factory setting: 100 V)			
	Input plug	NEMA 5-15P		NEMA 5-20P	
AC output	Rated voltage	100/110/115/120 V (User settable. Factory setting: 100 V)			
	Overcurrent protection ⁽¹⁾	Breaker protection			
	Voltage harmonic distortion ⁽²⁾	At linear load	3%		
		At rectifier load	7% (at 100% rectifier load)		
Output receptacle	NEMA 5-15R (× 6)		NEMA 5-20R (× 4)		
Battery	Backup time	5 min (at 25°C ambient temperature and rated output, under initial battery conditions)			
Interface	PC port	RS-232C			
	Remote port ⁽³⁾	—	✓	—	
	Auxiliary port (EPO)	—	✓	—	
	Optional card interface	Dry contact ⁽⁵⁾	—	✓	—
		LAN card ⁽⁶⁾	✓	✓	✓
Output Line Control contact	—	✓	—	✓	
UL/CE certification	—	—	✓	✓	
Acoustic noise	40 dB or less (1 m from front of UPS, A-weighted)				
Heat dissipation ⁽⁷⁾	200 W				
Compatible options					
Outlet box ⁽⁷⁾	—	P10037	—	P10037	
Rack support rail ⁽⁸⁾	RM030				
Floor mounting brackets ⁽⁹⁾	FMA11F00				
Air filter ⁽¹⁰⁾	FL001				
Replacement battery pack					
For internal battery	BPE11A152A00				

Input plug shape



Output receptacle shape



Specifications

100 V model 1.5 kVA capacity

Model no.	E11A152B001TW	E11A152B011TW	E11A152B021TW	E11A152B001TWUJ	E11A152B011TWUJ	E11A152B021TWUJ	
Rated power capacity (Apparent power / Active power)	1.5 kVA / 1.05 kW (Watts value at a load power factor of 0.7)						
AC input	Rated voltage	100/110/115/120 V (User settable. Factory setting: 100 V)					
	Input plug	NEMA 5-15P			NEMA 5-20P		
AC output	Rated voltage	100/110/115/120 V (User settable. Factory setting: 100 V)					
	Overcurrent protection ⁽¹⁾	Breaker protection					
	Voltage harmonic distortion ⁽²⁾	At linear load	3%				
		At rectifier load	7% (at 100% rectifier load)				
Output receptacle	NEMA 5-15R (× 4)			NEMA 5-20R (× 4)			
Battery	Backup time	5 min (at 25°C ambient temperature and rated output, under initial battery conditions)					
Interface	PC port	RS-232C					
	Remote port ⁽³⁾	—	✓	—	—	✓	
	Auxiliary port (EPO)	—	✓	—	—	✓	
	Optional card interface	Dry contact ⁽⁴⁾	—	✓	✓	—	✓
		LAN card ⁽⁵⁾	✓	✓	✓	✓	✓
Output Line Control contact	—	✓	—	—	✓	—	
UL/CE certification	—	—	—	✓	✓	✓	
Acoustic noise	40 dB or less (1 m from front of UPS, A-weighted)						
Heat dissipation ⁽²⁾	200 W						
Compatible options							
Outlet box ⁽⁷⁾	—	P10037	—	—	P10037	—	
Rack support rail ⁽⁸⁾	—						
Floor mounting brackets ⁽⁹⁾	FME11AA05						
Air filter ⁽¹⁰⁾	FL004						
Replacement battery pack							
For internal battery	BPE11A152A02						

100 V model 2 kVA capacity

100 V model 3 kVA capacity

Model no.	E11A202B001	E11A202B011	E11A202B001UJ	E11A202B011UJ	E11A302B001	E11A302B011	E11A302B001UJ	E11A302B011UJ	
Rated power capacity (Apparent power / Active power)	2 kVA / 1.4 kW (Watts value at a load power factor of 0.7)				3 kVA / 2.1 kW ⁽¹¹⁾ (Watts value at power factor of 0.7)				
AC input	Rated voltage	100/110/115/120 V (User settable. Factory setting: 100 V)							
	Input plug	NEMA L5-30P							
AC output	Rated voltage	100/110/115/120 V (User settable. Factory setting: 100 V)							
	Overcurrent protection ⁽¹⁾	Breaker protection							
	Voltage harmonic distortion ⁽²⁾	At linear load	3%						
		At rectifier load	7% (at 100% rectifier load)						
Output receptacle	NEMA L5-20R (× 1), NEMA 5-15R (× 3)		NEMA L5-30R (× 1)		NEMA L5-30R (× 1)				
Battery	Backup time	5 min (at 25°C ambient temperature and rated output, under initial battery conditions)			3.5 min (at 25°C ambient temperature and rated output, under initial battery conditions)				
Interface	PC port	RS-232C							
	Remote port ⁽³⁾	—	✓	—	✓	—	✓	—	
	Auxiliary port (EPO)	—	✓	—	✓	—	✓	—	
	Optional card interface	Dry contact ⁽⁴⁾	—	✓	—	✓	—	✓	—
		LAN card ⁽⁵⁾	✓	✓	✓	✓	✓	✓	✓
Output Line Control contact	—	✓	—	✓	—	✓	—	✓	
UL/CE certification	—	—	✓	✓	—	—	✓	✓	
Acoustic noise	45 dB or less (1 m from front of UPS, A-weighted)				45 dB or less (1 m from front of UPS, A-weighted)				
Heat dissipation ⁽²⁾	250 W				460 W				
Compatible options									
Outlet box ⁽⁷⁾	—	P10040	—	P10040	P10030				
Rack support rail ⁽⁸⁾	RM030								
Floor mounting brackets ⁽⁹⁾	FMA11F00				Standardly included (FMA11F00)				
Air filter ⁽¹⁰⁾	FL001								
Replacement battery pack									
For internal battery	BPE11A202A00				BPE11A302A00-1				

⁽¹⁾ At Double Conversion mode, the UPS transfers to bypass operation with no interruption (auto-return). This auto-return setting can be disabled.

⁽²⁾ Value at rated output, Double Conversion mode, after battery charging completed

⁽³⁾ Remote ON/OFF switch (management of the switching of up to 5 UPS units is possible in Linked Operation)

⁽⁴⁾ Transistor output available

⁽⁵⁾ If using as a no-voltage contact output, an optional dry contact interface card is required.

⁽⁶⁾ Optional LAN interface card is required.

⁽⁷⁾ Enables Output Line Control, the coordinated on/off management of UPS outlets. Output 0: constant output; output 1 and 2: controlled output.

⁽⁸⁾ Used for mounting the UPS on a standard 19-inch rack.

⁽⁹⁾ Brackets for mounting the UPS to the floor.

⁽¹⁰⁾ Front side air intake filter to prevent dust ingress.

⁽¹¹⁾ Output values for UL/CE models:

Output voltage setting	Output capacity
100 V	2.5 kVA / 1.75 kW
110 V	2.75 kVA / 1.925 kW
115 V	2.875 kVA / 2.013 kW
120 V	3 kVA / 2.1 kW

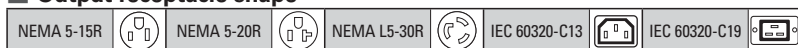
200 V model 1 kVA capacity		200 V model 2 kVA capacity					
Model no.		E11A102B002UJ	E11A102B012UJ	E11A202B002UJ	E11A202B012UJ	E11A202B012T	
Rated power capacity (Apparent power / Active power)		1 kVA / 0.7 kW (Watts value at a load power factor of 0.7)		2 kVA / 1.4 kW (Watts value at a load power factor of 0.7)			
AC input	Rated voltage	200/208/220/230/240 V (Selectable. Factory setting: 200 V)					
	Input plug	NEMA L6-20P				Terminal block	
AC output	Rated voltage	200/208/220/230/240 V (Selectable. Factory setting: 200 V)					
	Overcurrent protection ⁽¹⁾	Breaker protection					
	Voltage harmonic distortion ⁽²⁾	At linear load	3%				
		At rectifier load	7% (at 100% rectifier load)				
Output receptacle	IEC 60320-C13 (× 4)			IEC 60320-C19 (× 3)		Terminal block	
Battery	Backup time	5 min (at 25°C ambient temperature and rated output, under initial battery conditions)					
Interface	PC port	RS-232C					
	Remote port ⁽³⁾	—	✓	—	✓	✓	
	Auxiliary port (EPO)	—	✓	—	✓	✓	
	Optional card interface	Dry contact ⁽⁵⁾	—	✓	—	✓	✓
		LAN card ⁽⁶⁾	✓	✓	✓	✓	✓
Output Line Control contact	—	✓	—	✓	✓	✓	
UL/CE certification		✓	✓	✓	✓	—	
Acoustic noise		40 dB or less (1 m from front of UPS, A-weighted)		45 dB or less (1 m from front of UPS, A-weighted)			
Heat dissipation ⁽²⁾		125 W		270 W			
Compatible options							
Outlet box ⁽⁷⁾		—					
Rack support rail ⁽⁸⁾		RM030					
Floor mounting brackets ⁽⁹⁾		FMA11F00					
Air filter ⁽¹⁰⁾		FL001					
Replacement battery pack							
For internal battery		BPE11A102A00		BPE11A202A00			

200 V model 3 kVA capacity					
Model no.		E11A302B002UJ	E11A302B012UJ	E11A302B012T	
Rated power capacity (Apparent power / Active power)		3 kVA / 2.1 kW (Watts value at a load power factor of 0.7)			
AC input	Rated voltage	200/208/220/230/240 V (Selectable. Factory setting: 200 V)			
	Input plug	NEMA L6-20P		Terminal block	
AC output	Rated voltage	200/208/220/230/240 V (Selectable. Factory setting: 200 V)			
	Overcurrent protection ⁽¹⁾	Breaker protection			
	Voltage harmonic distortion ⁽²⁾	At linear load	3%		
		At rectifier load	7% (at 100% rectifier load)		
Output receptacle	IEC 60320-C19 (× 3)		Terminal block		
Battery	Backup time	5 min (at 25°C ambient temperature and rated output, under initial battery conditions)			
Interface	PC port	RS-232C			
	Remote port ⁽³⁾	—	✓	✓	
	Auxiliary port (EPO)	—	✓	✓	
	Optional card interface	Dry contact ⁽⁵⁾	—	✓	✓
		LAN card ⁽⁶⁾	✓	✓	✓
Output Line Control contact	—	✓	✓		
UL/CE certification		✓	✓	—	
Acoustic noise		45 dB or less (1 m from front of UPS, A-weighted)			
Heat dissipation ⁽²⁾		460 W			
Compatible options					
Outlet box ⁽⁷⁾		—			
Rack support rail ⁽⁸⁾		RM030			
Floor mounting brackets ⁽⁹⁾		Standardly included (FMA11F00)			
Air filter ⁽¹⁰⁾		FL001			
Replacement battery pack					
For internal battery		BPE11A302A00-2			

Input plug shape

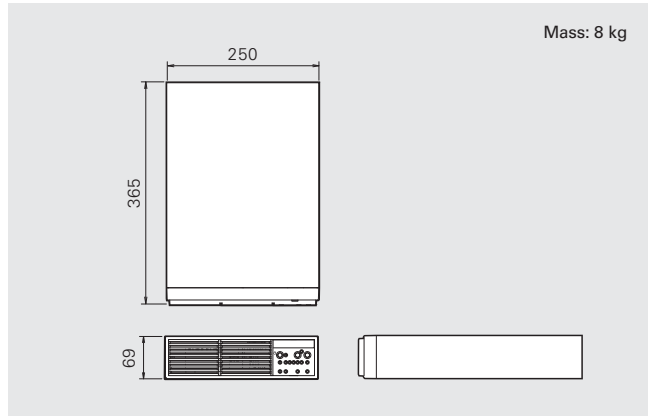


Output receptacle shape

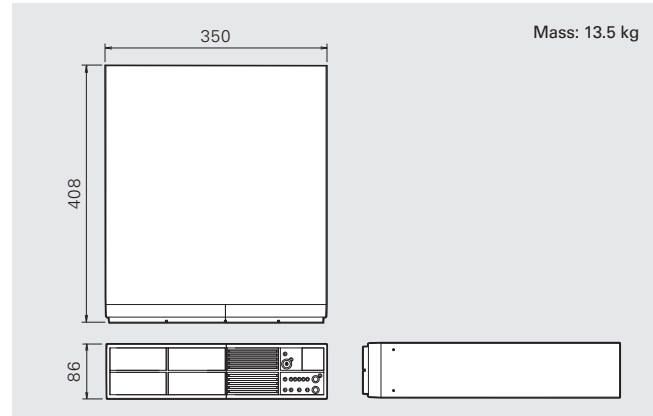


UPS Dimensions (Unit: mm)

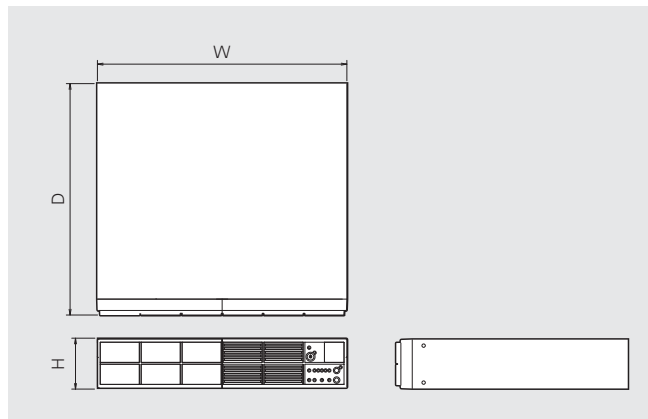
0.35 kVA capacity models



0.75 kVA capacity models

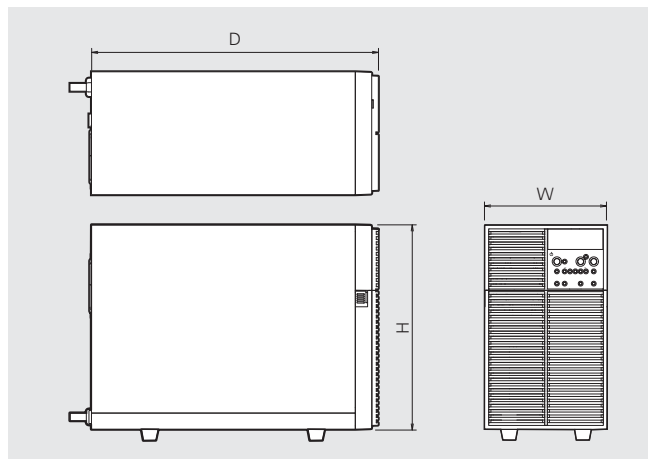


1 to 3 kVA capacity models



UPS output capacity	W	D	H	Mass
1 kVA	440	408	86	17 kg
1.5 kVA		500		22 kg
2 kVA		565		29 kg
3 kVA (100 V model)		660		37 kg
3 kVA (200 V model)		750		39 kg

0.75 to 1.5 kVA capacity models, tower type



UPS output capacity	W	D	H	Mass
0.75 kVA	150	350	250	14 kg
1 kVA		395		17 kg
1.5 kVA		450		22 kg

Paint color: Black (Munsell N1.5)

Included Items with UPS

Item	Description
Instruction Manual	For models with model nos. ending with 'UJ', both Japanese and English versions will be included. For other models, only Manual and Guide in Japanese will be included.
User Settings Guide	
Power Management Software CD-ROM	SANUPS SOFTWARE STANDALONE
Communication cable	RS-232C (3 m)
Rack mounting brackets	1 pair (left and right)
Screws for rack mounting bracket	M4 X 6 mm
Vertical stands / Floor mounting brackets	For vertical installation
Screws for stands	M4 X 8 mm

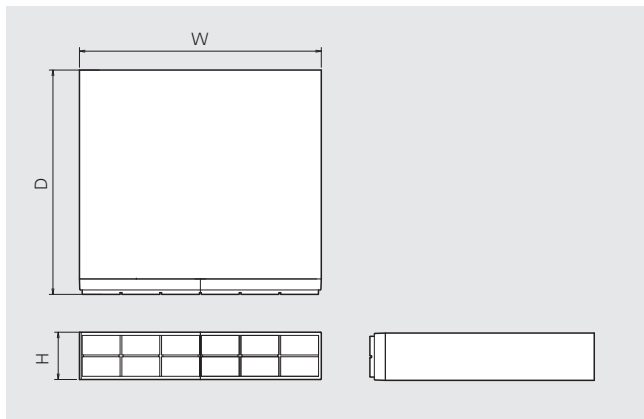
Note: Rack mounting brackets and vertical stands are not supplied with tower type UPSs.

Optional External Battery Module

Model no.	Compatible UPS capacity	Backup time						Battery replacement method
		15 min	20 min	30 min	40 min	45 min	60 min	
BCE11A102A01US	1 kVA	—	1 unit	—	2 units	—	3 units	Battery packs are front replaceable.
BCE11A102A02US		—	—	1 unit	—	—	2 units	The battery module has to be replaced.
BCE11A152A01US	1.5 kVA	—	1 unit	—	2 units	—	3 units	Battery packs are front replaceable.
BCE11A152A02US		—	—	1 unit	—	—	2 units	The battery module has to be replaced.
BCE11A202A01US	2 kVA	—	1 unit	—	2 units	—	3 units	Battery packs are front replaceable.
BCE11A202A02US		—	—	1 unit	—	—	2 units	The battery module has to be replaced.
BCE11A302A03US	3 kVA (100 V model)	1 unit	—	2 units	—	3 units	—	Battery packs are front replaceable.
BCE11A302A01US	3 kVA (200 V model)	—	1 unit	—	2 units	—	3 units	Battery packs are front replaceable.

External battery module is not available for tower type UPSs.
 Note: For battery replacement of UL/CE models, please consult us.

Dimensions (Unit: mm)



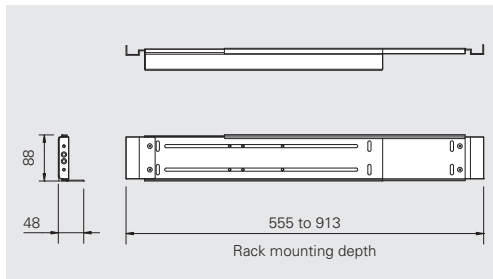
Model no.	Dimensions			Mass
	W	D	H	
BCE11A102A01US	440	408	86	20 kg
BCE11A102A02US		508		29 kg
BCE11A152A01US		500		26 kg
BCE11A152A02US		600		38 kg
BCE11A202A01US		565		34 kg
BCE11A202A02US		630		47 kg
BCE11A302A03US		660		50 kg
BCE11A302A01US		750		52 kg

Paint color: Black (Munsell N1.5)

Dimensions of Options (Unit: mm)

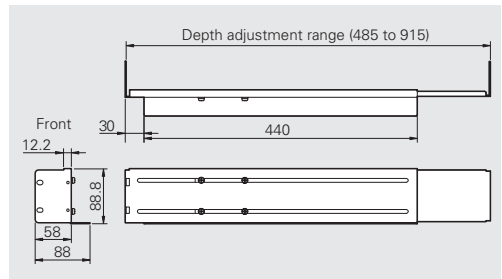
Rack support rails Used for mounting the UPS on a standard 19-inch rack. (A pair of left and right rails. Shown below is the left rail.)

RM030 (2U)



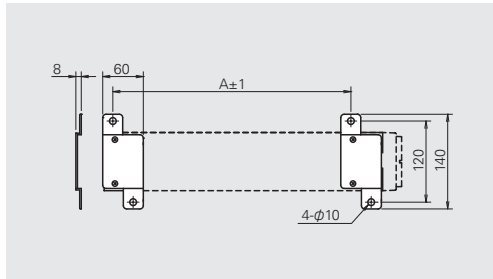
Rack mounting brackets are included with the UPS.

RME11A751A00 (2U, for 0.75 kVA models)

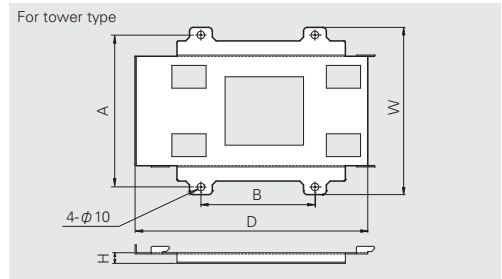


Rack mounting brackets are included with the support rails.

Floor mounting brackets Used for securing the UPS to the floor.



Model no.	Compatible UPS capacity	A
FMA11F00	0.75 kVA	320
	1 kVA	320
	1.5 kVA	412
	2 kVA	477



Model no.	Compatible UPS capacity	W	D	H	A	B
FME11AA03	0.75 kVA	220	306.1	14	200	150
FME11AA04	1 kVA		351.1			200
FME11AA05	1.5 kVA		406.1			250



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- Before installing, assembling, and using the product, please read Instruction Manual carefully and use it properly.
 - When using this product in the following applications, consult 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.
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 - For use in an environment where vibration is present, such as in a car or a ship, please consult us in advance.
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