SANUPS

ONLINE UPS

A11H

SANYO DENKI

SANUPS A11H

ONLINE UPS

NETWORK MONITORING | 19 inch rack Mountable EIA | c UL us LISTED

120 V model

Input/Output voltage	Output capacity			
120 VAC Single-phase 2-wire	1 kVA (0.7 kW)	1.5 kVA (1.05 kW)	2 kVA (1.4 kW)	3 kVA (2.1 kW)

1 Wide Input Voltage Range from 55 to 150 VAC

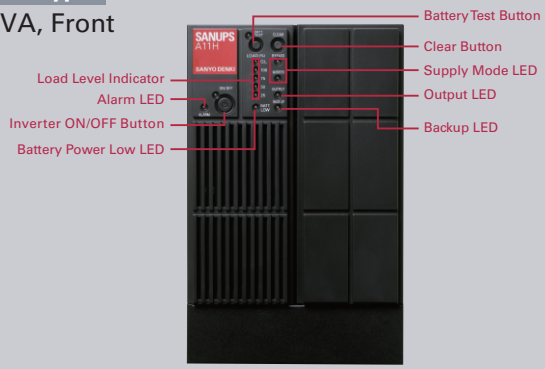
Industry-leading wide voltage range can handle unstable voltages, minimizing unnecessary battery operation for optimal battery life and enhanced reliability.

2 Wide Input Frequency Range from 40 to 120 Hz

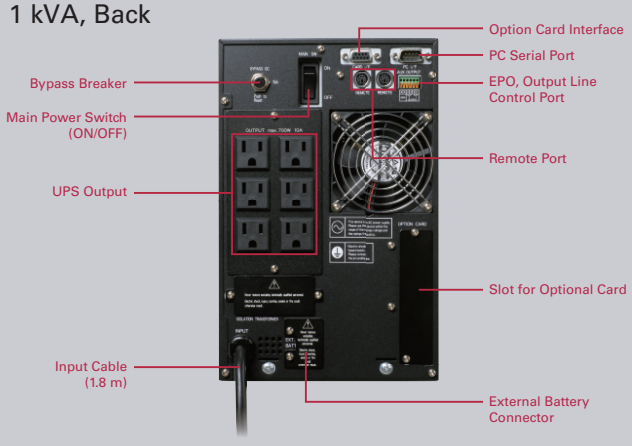
Industry-leading wide frequency range not only helps save battery life but also provides excellent compatibility with various types of emergency generators.

Tower type

1 kVA, Front

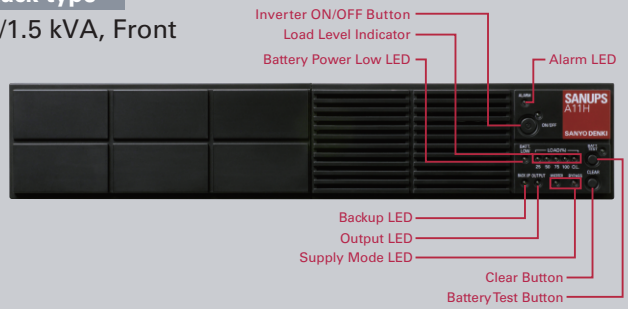


1 kVA, Back

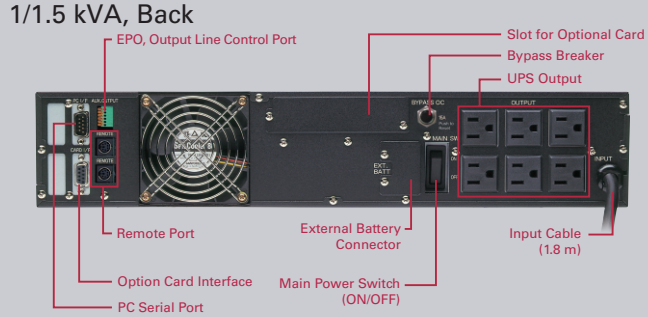


Rack type

1/1.5 kVA, Front



1/1.5 kVA, Back



Input/Output connector

Type	Capacity (kVA)	Model (UL-registered no.) Order no. is in parentheses.	Input plug	Output receptacle
Tower	1	A11H102U011TW (A11H102A011USTW)	NEMA 5-15P	NEMA 5-15R×6
	2	A11H202U011TW (A11H202A011USTW)	NEMA 5-20P	NEMA 5-20R×4
		A11H202U111TW (A11H202A111USTW)		
	3	A11H302U011TW (A11H302A011USTW)	NEMA L5-30P	NEMA L5-30R×1
		A11H302U111TW (A11H302A111USTW)		
Rack	1	A11H102U011 (A11H102A011US)	NEMA 5-15P	NEMA 5-15R×6
	1.5	A11H152U011 (A11H152A011US)		
	2	A11H202U011 (A11H202A011US)	NEMA 5-20P	NEMA 5-20R×4
	3	A11H302U011 (A11H302A011US)	NEMA L5-30P	NEMA L5-30R×1

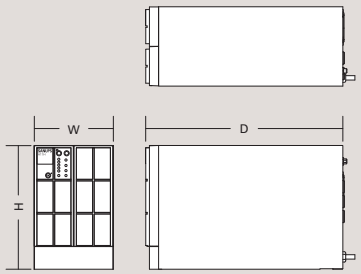
Interface

- RS-232C serial port for PC communication
- Remote port
- Emergency Power Off (EPO) port
- Communication port and card slot for options:
  - -LAN interface card
  - -Dry contact interface card

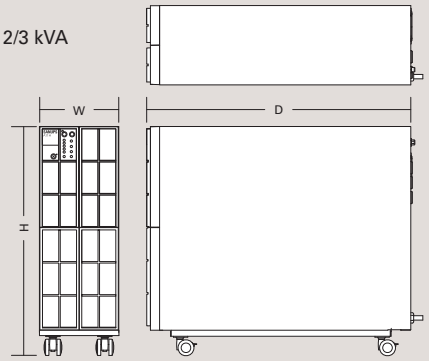
External dimensions

Tower type

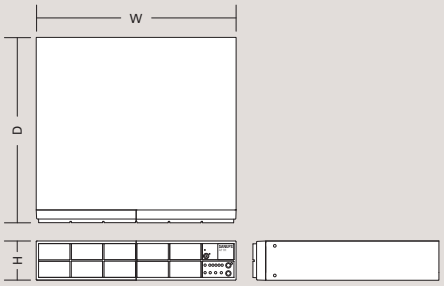
1 kVA



2/3 kVA



Rack type



Paint color: Black (Munsell, N 1.5)

Type	Capacity	Model (UL-registered no.) Order no. is in parentheses.	Dimensions (mm)			Mass	Battery runtime
			Width (W)	Depth (D)	Height (H)		
Tower	1 kVA	**A11H102U011TW (A11H102A011USTW)**	173	430	270	17 kg	5 min
	2 kVA	**A11H202U011TW (A11H202A011USTW)**	175	565	504	52 kg	12 min
		A11H202U111TW (A11H202A111USTW)				64 kg	20 min
	3 kVA	**A11H302U011TW (A11H302A011USTW)**		660		65 kg	10 min
		A11H302U111TW (A11H302A111USTW)				81 kg	18 min
Rack	1 kVA	**A11H102U011 (A11H102A011US)**	440	408	86	17 kg	5 min
	1.5 kVA	**A11H152U011 (A11H152A011US)**		500		22 kg	5 min
	2 kVA	**A11H202U011 (A11H202A011US)**		565		29 kg	5 min
	3 kVA	**A11H302U011 (A11H302A011US)**		660		37 kg	3.5 min

Specifications

Model (UL-registered no.) Order no. in parentheses.			Tower type	Standard	**A11H102U011TW (A11H102A011USTW)**	—	**A11H202U011TW (A11H202A011USTW)**	**A11H302U011TW (A11H302A011USTW)**	Remarks
				Extra battery	—	—	**A11H202U111TW (A11H202A111USTW)**	**A11H302U111TW (A11H302A111USTW)**	
			Rack type		**A11H102U011 (A11H102A011US)**	**A11H152U011 (A11H152A011US)**	**A11H202U011 (A11H202A011US)**	**A11H302U011 (A11H302A011US)**	
Rated power capacity (apparent/active)					1.0 kVA / 0.7 kW	1.5 kVA / 1.05 kW	2 kVA / 1.4 kW	3 kVA / 2.1 kW	
System	Topology				True online double conversion				
	Cooling method				Forced air cooling				
AC Input	Number of phases/wires				Single-phase 2-wire				
	Rated voltage				120 V				
	Voltage range				55 to 150 V [1]				
	Frequency range				40 to 120 Hz				
	Power factor				0.95 or greater				
AC Output	Number of phases/wires				Single-phase 2-wire				
	Power factor				0.7 (lagging)				
	Rated voltage				120 V				
	Voltage regulation				±2% max.				
	Rated frequency				50/60 Hz				According to the user-setting, regardless of input frequency.
	Frequency regulation	At normal operation			±1, 3, 5% max.				User selectable
		At free run			±0.5% max.				
	Voltage harmonic distortion	Linear load			3% max.				At rated output
		Non-linear load			7% max.				At rated output and 100% rectifier load
	Transient voltage regulation	Input voltage step			±5% max.				Loss or return of input power / abrupt input voltage change
		100% step load			±5% max.				For 0 ⇔ 100% load step changes
	Overload capacity				105% (200 ms)				At rated load power factor and rated input
	Overcurrent protection				Circuit breaker				
Battery	Type				Small-sized valve-regulated lead-acid (VRLA) battery				
	Runtime (at ambient temp. 25°C and rated load)		Tower type		5 min	—	12 min	10 min	Tower type, standard
					—	—	20 min	18 min	Tower type, extra battery
			Rack type		5 min	5 min	5 min	3.5 min	Rack type
Acoustic noise					40 dB max.		45 dB max.	50 dB max.	1 m from front of UPS, A-weighted
Heat dissipation					125 W	200 W	250 W	370 W	
Environment	Operating temperature				0 to 40°C				
	Relative humidity				20 to 90%				Non-condensing
	Altitude				3000 m max.				If used above 1000 m, the load level must be reduced. 2000 m: 90%, 3000 m: 80%
Safety standard					UL 1778 5th edition (E226092), FCC Part 15 Subpart B Class A				

[1] At input voltage lower than 96 V, the UPS will transfer to battery operation after 1 minute of utility operation.
The lower limit value of the input voltage range changes between 55 and 68 V at load level < 40%, and 68 to 80 V at load level < 70%. If the input voltage deviates below the limit, operation immediately switches to battery.

Options

Item	Compatible type	Model	Description
LAN interface card	Rack /Tower	**PRLANIF011-US**	This card enables 24/7 monitoring of UPS operations and status, and sends e-mail notifications to system administrators for quick actions via network in the event of a power failure.
		PRLANIF013-US (Environmental monitoring function)	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	Rack /Tower	**PRCONIF001-US** (Terminal box type)	This card outputs no-voltage signals for notifying UPS status.
		PRCONIF003-US (D-sub 15 pin type)	
Remote power switch	Rack /Tower	**RSW006RUS**	This switch remotely turns ON/OFF the UPS power.
Rack support rail	Rack	**RM030-US**	Support rail for mounting a UPS into a standard 19-inch rack.

■ Battery modules (for rack type)

Model (UL-registered no.) Order no. is in parentheses.		Dimensions (mm) Width	Depth	Height	Mass	Runtime (min) 15	20	30	40	45	60
BC-E11A102US (BCE11A102A01US)	For 1 kVA	440	408	86	20 kg	—	1 unit	—	2 units	—	3 units
BC-E11A102USL (BCE11A102A02US)			508		29 kg	—	—	1 unit	—	—	2 units
BC-E11A152US (BCE11A152A01US)	For 1.5 kVA		500		26 kg	—	1 unit	—	2 units	—	3 units
BC-E11A152USL (BCE11A152A02US)			600		38 kg	—	—	1 unit	—	—	2 units
BC-E11A202US (BCE11A202A01US)	For 2 kVA		565		34 kg	—	1 unit	—	2 units	—	3 units
BC-E11A202USL (BCE11A202A02US)			630		47 kg	—	—	1 unit	—	—	2 units
BC-E11A302US100V (BCE11A302A03US)	For 3 kVA		660		50 kg	1 unit	—	2 units	—	3 units	—

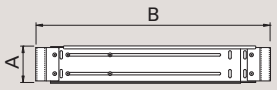
■ Battery modules (for tower type)

Model (UL-registered no.) Order no. is in parentheses.		Dimensions (mm) Width	Depth	Height	Mass	Runtime (min) 15	20	30	40	45	60
BCA11H102A01US (BCA11H102A01USTW)	For 1 kVA	173	430	304	20 kg	—	1 unit	—	—	—	—

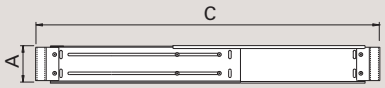
Note: Battery modules with model numbers ending with -US or -US100V are front-accessible and the battery packs within them can be replaced individually while mounted in a rack.
For battery modules with model numbers ending with -USL, the whole module has to be replaced.

■ Dimensions for rack support rail

○ When fully retracted



○ When fully extended



RM030-US

A	B	C
86.6 mm	555 mm	913 mm

Notes before Purchase

- 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.
  - (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 us in advance.
- Never attempt to disassemble or alter the product in any way.
- For installation and maintenance work of the product, please consult us or properly licensed personnel.
- Products listed in this catalog may be regulated by export laws and regulations in each country. When exporting these products, compliance with each country's respective export laws and regulations is highly recommended.
- 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.

Note: For any inquiry or consultation, please contact our sales department.

https://www.sanyodenki.com

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