SANUPS

ON LINE UPS

A11H

SANYO DENKI

SANUPS A11H

ONLINE UPS

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

120V model

Output	Output capacity			
AC120V Single-phase	**1kVA** (0.7kW)	**1.5kVA** (1.05kW)	**2kVA** (1.4kW)	**3kVA** (2.1kW)

1 55VAC to 150VAC Input Voltage Window

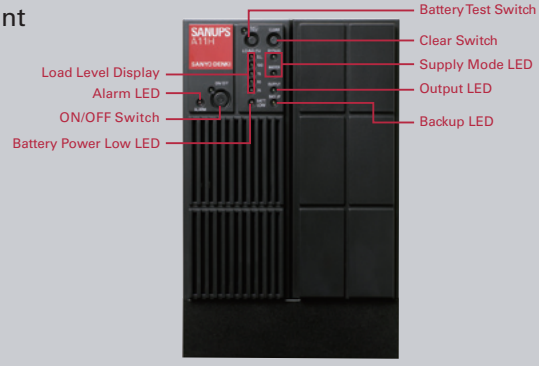
Dramatically reduced the use of batteries due to widest voltage windows in the UPS industry. Results in longer battery life, and high reliability.

2 40Hz to 120Hz Input Frequency Window

Allows for small inexpensive generators due to widest frequency windows in the UPS industry. Offers the highest reliability.

Tower

Front



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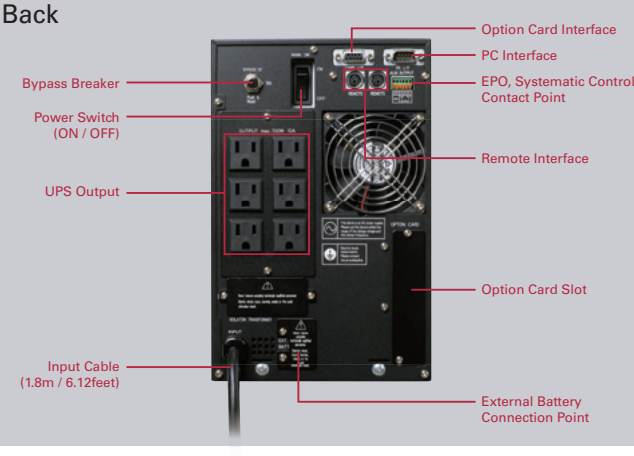
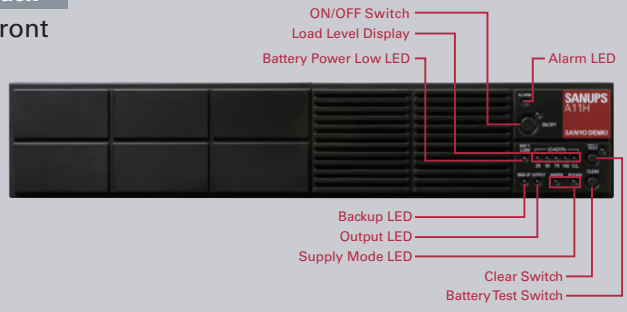


Rack

Front



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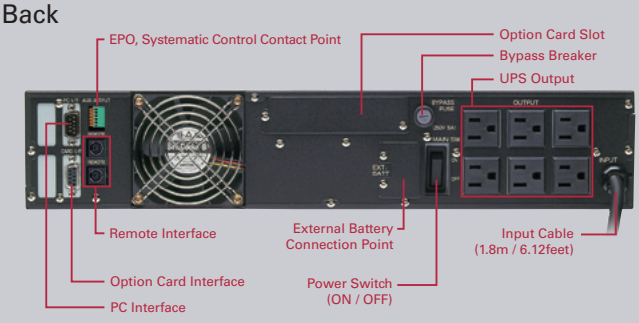


INPUT/OUTPUT Connection Chart

Type	Output (kVA)	Model	INPUT Plug	OUTPUT Receptacle
Tower	1	**A11H102A011USTW**	NEMA 5-15P	NEMA 5-15R×6
	2	**A11H202A011USTW**	NEMA 5-20P	NEMA 5-20R×4
	3	**A11H302A011USTW**	NEMA L5-30P	NEMA L5-30R×1
Rack	1	**A11H102A011US**	NEMA 5-15P	NEMA 5-15R×6
	1.5	**A11H152A011US**		
	2	**A11H202A011US**	NEMA 5-20P	NEMA 5-20R×4
	3	**A11H302A011US**	NEMA L5-30P	NEMA L5-30R×1

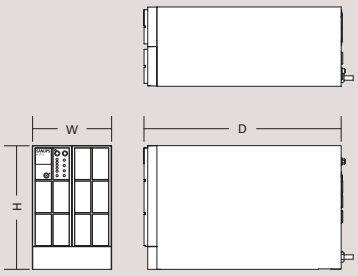
Interface

- PC (RS-232C)
- Remote
- Emergency Power Off
- LAN Interface Card (Option) Model : PRE11A01-US
- Dry Contact signal Interface Card (Option) Model : PRE11A02-US

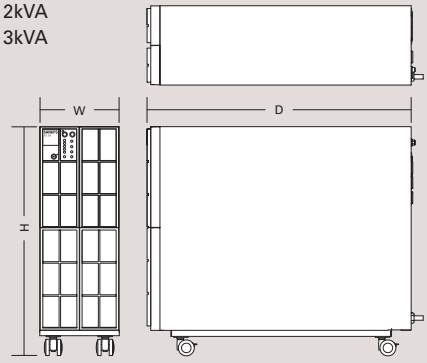
External dimensions

Tower

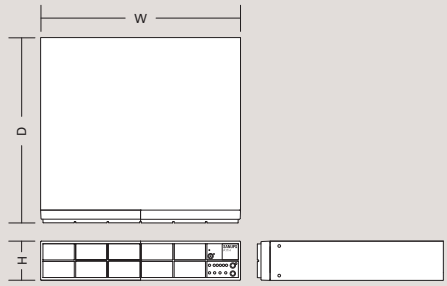
1kVA



2kVA
3kVA



Rack



PaintColor : Black (Munsell N1.5)

Type	Output power (kVA)	Model	Dimensions			Mass (Weight)
			Width (W)	Depth (D)	Height (H)	
Tower	1kVA	**A11H102A011USTW**	173mm (6.81in)	430mm (16.93in)	270mm (10.63in)	17kg (37.5lb)
	2kVA	**A11H202A011USTW**	175mm (6.89in)	565mm (22.24in)	504mm (19.84in)	52kg (114.6lb)
		A11H202A111USTW				64kg (141.1lb)
	3kVA	**A11H302A011USTW**		660mm (25.98in)		65kg (143.3lb)
		A11H302A111USTW				81kg (178.6lb)
Rack	1kVA	**A11H102A011US**	440mm (17.32in)	408mm (16.06in)	86mm (3.39in)	17kg (37.5lb)
	1.5kVA	**A11H152A011US**		500mm (19.69in)		22kg (48.5lb)
	2kVA	**A11H202A011US**		565mm (22.24in)		29kg (63.9lb)
	3kVA	**A11H302A011US**		660mm (25.98in)		37kg (81.6lb)

Specifications

Item	A11H						Remarks
	Tower type		**A11H102A011USTW**	–	**A11H202A011USTW**	**A11H302A011USTW**	
			–	–	**A11H202A111USTW**	**A11H302A111USTW**	
	Rack type		**A11H102A011US**	**A11H152A011US**	**A11H202A011US**	**A11H302A011US**	
	Output power		1kVA (0.7kW)	1.5kVA (1.05kW)	2kVA (1.4kW)	3kVA (2.1kW)	
System	Topology		Online UPS				
	Cooling		Forced Air				
AC Input	Number of phase / wire		Single-phase / 2wire				
	Nominal voltage		120V				
	Voltage range		55V~150V*				
	Frequency range		40Hz~120Hz				
	Power factor		0.95Min.				
AC Output	Number of phase / wire		Single-phase / 2wire				
	Power factor		0.7 (lag)				
	Nominal voltage		120V				
	Voltage regulation		±2%Max.				
	Frequency		50 / 60Hz				Follow the menu setting irrespective of the input frequency.
	Frequency range	On Normal Operation	±1,3,5%Max.				User selectable
		On Battery Operation	±0.5%Max.				
	Voltage distortion	Linear load	3%Max.				During rated operations
		Non-linear load	7%Max.				During rated operations / 100% rectifier load
	Transient	Input Voltage step	±5%Max.				Power failure: feedback or supply fluctuation
	Voltage regulation	100% step load	±5%Max.				0% : at the time of 100% sudden fluctuation
	Overcurrent capacity		105% (200ms.)				Rated load power factor / at rated input
	Overcurrent protection		Breaker Protection				
Battery	Type		Maintenance Free Sealed Lead-Acid Battery				
	Backup time	Tower type	5min.(A11H102A011USTW), 12min.(A11H202A011USTW), 10min.(A11H302A011USTW), 20min.(A11H202A111USTW), 18min.(A11H302A111USTW)				Ambient Temp. of 25℃, under rated load
		Rack type	5min. (1, 1.5, 2kVA), 3.5min. (3kVA)				
Acoustic noise			40dB Max.(1kVA), 45dB Max.(2kVA), 50dB Max.(3kVA)				At 40in from the front of unit
Nominal heat dissipation			125W (1kVA) / 185W (1.5kVA) / 250W (2kVA) / 370W (1kVA)				
Environment	Operating temperature		0~40℃				
	Relative humidity		20~90%				Non-condensing
	High degree		9843ft Max.				Load reduction is necessary for 3281ft or more. 6562ft 90% 9843ft 80%
Standard of safety			UL1778-Fourth Edition (File # E226092), FCC Part15 Subpart B Class A				

* At 96V or less, operation switches to battery after one minute of AC operation.
The load reduction factor is 40% or less at 55-68V and 70% or less at 68-80V, and if this load factor is exceeded, operation switches immediately to battery.

Option

Item	Type	Model	Remarks
LAN interface card	Rack /Tower	**PRE11A01-US**	
Dry contact signal interface card	Rack /Tower	**PRE11A02-US**	
Remote switch	Rack /Tower	**RSW006RUS**	
Rack support rail	Rack	**RM030US**	
Battery only	Tower (1kVA)	**BCA11H102A01**	External battery 20 minutes
Transformer only	Tower (1kVA)	**BCA11H102A02**	Output isolation transformer
Battery and Transformer	Tower (1kVA)	**BCA11H102A03**	External battery 20 minutes and output isolation transformer

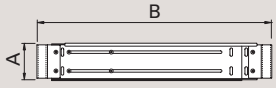
■ External battery (For rack type)

Model		Dimensions			Mass	Run-time (Min)					
		Width	Depth	Height	(Weight)	15	20	30	40	45	60
BCE11A102A01US	For 1kVA	440mm (17.32in)	408mm (16.06in)	86mm (3.39in)	20kg (44.09lds)	—	1unit	—	2unit	—	3unit
BCE11A102A02US			508mm (20.00in)		29kg (63.93lds)	—	—	1unit	—	—	2unit
BCE11A152A01US	For 1.5kVA		500mm (19.69in)		26kg (57.32lds)	—	1unit	—	2unit	—	3unit
BCE11A152A02US			600mm (23.62in)		38kg (83.77lds)	—	—	1unit	—	—	2unit
BCE11A202A01US	For 2kVA		565mm (22.24in)		34kg (74.95lds)	—	1unit	—	2unit	—	3unit
BCE11A202A02US			630mm (24.80in)		47kg (103.62lds)	—	—	1unit	—	—	2unit
BCE11A302A03US	For 3kVA		660mm (25.98in)		50kg (110.2lds)	1unit	—	2unit	—	3unit	—

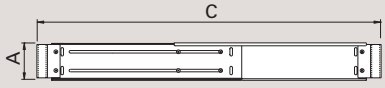
* The optional battery modules indicated by 01US or 03US at the end of the model number enable the internal battery to be replaced from the front with the rack attached. With optional battery modules indicated by 02US at the end of the model number, the internal batteries within the rack cannot be replaced with the rack attached. It is necessary to remove the optional battery module from the rack, and then replace the batteries.

■ Support rail
External demensions

○ Effective Dimensions (when fully retracted)



○ Effective Dimensions (when fully extended)



A	B	C
86.6mm (3.41in)	555mm (21.85in)	913mm (35.94in)

Notes when investigating use of this product in your applications

●Before starting installation, assembling and use, read the "Operation Manual" carefully and use the product correctly in your applications.
●When you are going to use this product in the following application, the special considerations are required for operation, running, maintenance and control. Be sure to consult with our company as a part of your investigations.
(a) Medical equipment and other equipment that are related directly to human life.
(b) Train or elevator that can give injury to human body.
(c) Socially and publicly important computer systems
(d) And other equipment that are related to safety of human life and that can affect severe effects on maintenance of public functions.
●For the applications that undergo vibration such as vehicles, ships and transportation facilities, please consult with our company.
●Never modify this product or give additional processing to this product.
●For the installation and maintenance work, please consult with our company or with specialized company.

※For any inquiry or consultation, please contact our sales representative.

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