

# SANUPS

ON LINE UPS

# A11H



## SANYO DENKI

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ONLINE UPS



## 120V model

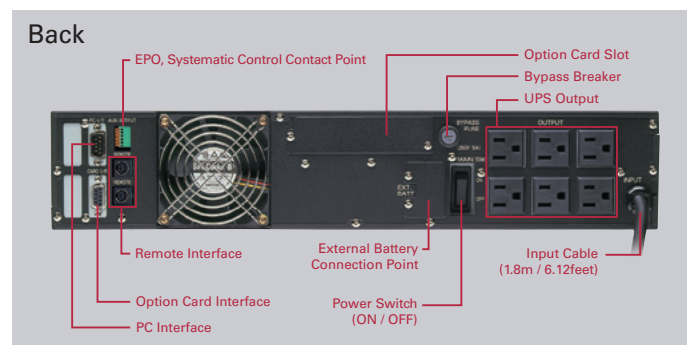
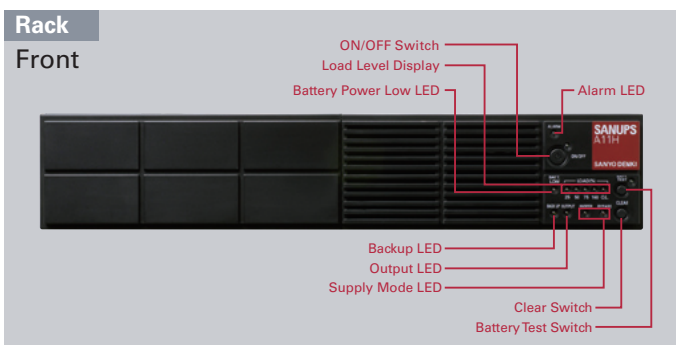
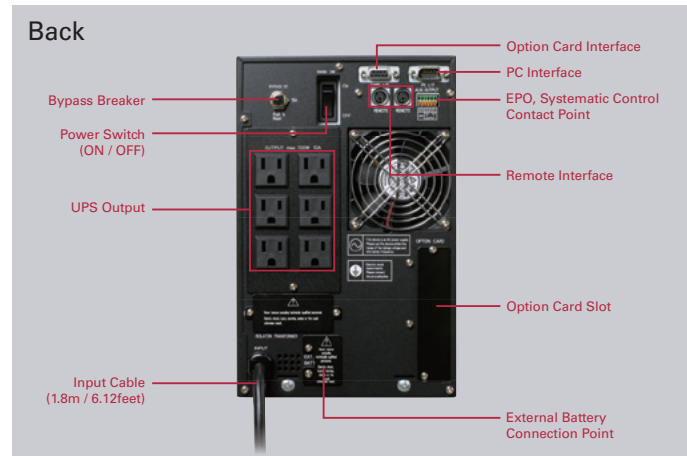
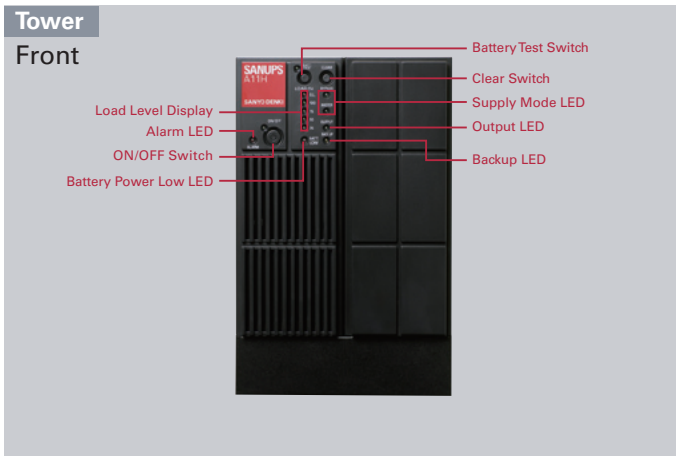
Output	Output capacity			
<b>AC120V</b>	<b>1kVA</b>	<b>1.5kVA</b>	<b>2kVA</b>	<b>3kVA</b>
Single-phase	(0.7kW)	(1.05kW)	(1.4kW)	(2.1kW)

## 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.



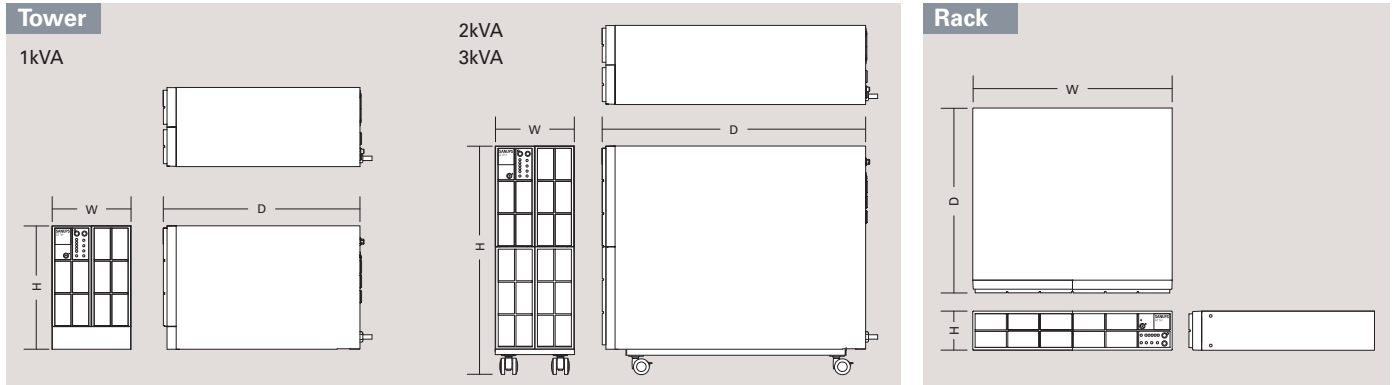
### INPUT/OUTPUT Connection Chart

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



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)		
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°C, 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°C			
	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)

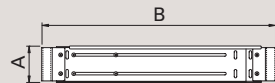
Model		Dimensions			Mass (Weight)	Run-time (Min)					
		Width	Depth	Height		15	20	30	40	45	60
BCE11A102A01US	For 1kVA	440mm (17.32in)	408mm (16.06in)	86mm (3.39in)	20kg (44.09lbs)	—	1unit	—	2unit	—	3unit
BCE11A102A02US			508mm (20.00in)		29kg (63.93lbs)	—	—	1unit	—	—	2unit
BCE11A152A01US	For 1.5kVA	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

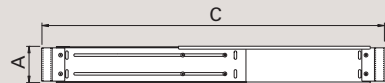
### Support rail

#### External dimensions

○ 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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