

SANUPS A

ONLINE UPS

A11G-Ni



SANYO DENKI

Non Toxic Lead-Acid Batteries Online UPS

SANUPS A11G-Ni With Nickel-Hydrogen Battery

ON LINE UPS



UL1778 (E226092), CE, FCC Part15 Subpart B Class A

100V model

Input	Output	Capacity	
AC100, 110, 115, 120V Single-phase	AC100, 110, 115, 120V Single-phase	1kVA (0.7kW)	1.5kVA (1.05kW)

200V model

Input	Output	Capacity	
AC200, 220, 230, 240V Single-phase	AC200, 220, 230, 240V Single-phase	1kVA (0.8kW)	1.5kVA (1.2kW)

12 min.	18 min.
Standard	Standard
1kVA	1.5kVA
Battery backup time	

* UL/CE certified models are available only in AC100V input and output/1.5kVA model.
See the model list on page 6.

- 1 Maintenance-free for 10 Years**
- 2 Compact and Lightweight**
- 3 Constant, Stable-Quality Power Supply**
- 4 Easy and Reliable Sequential System Start and Stop**



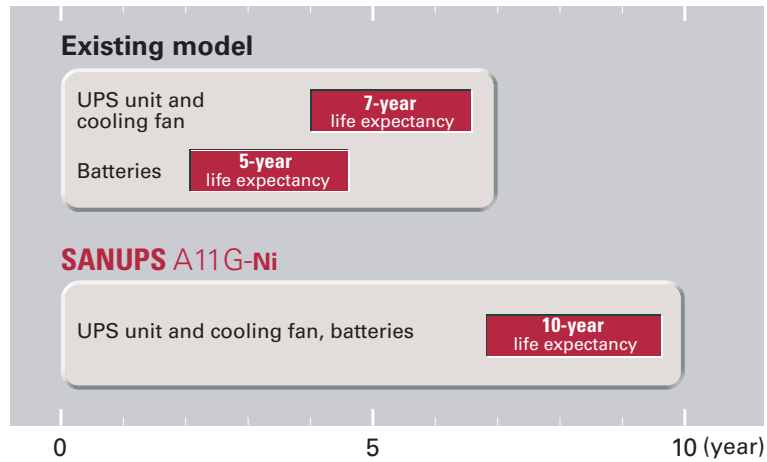
Vertical Installation
Includes support brackets.



Mounted in a 19-inch rack
19 inch rack installation brackets and rack support rail is optional.

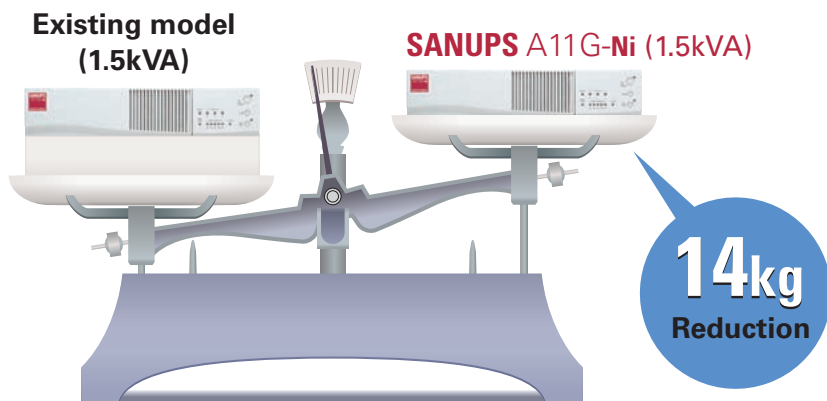
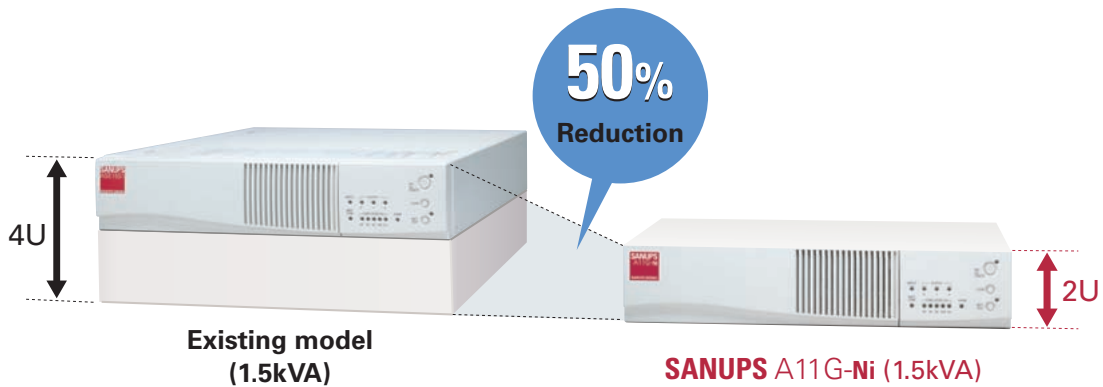
7 Maintenance-free for 10 Years

- First UPS of its class featuring a nickel-hydrogen battery.
- Twice the battery life of the existing model (10-year life expectancy at 25°C).
- Also UPS unit life expectancy of 10 years.



2 Compact and Lightweight

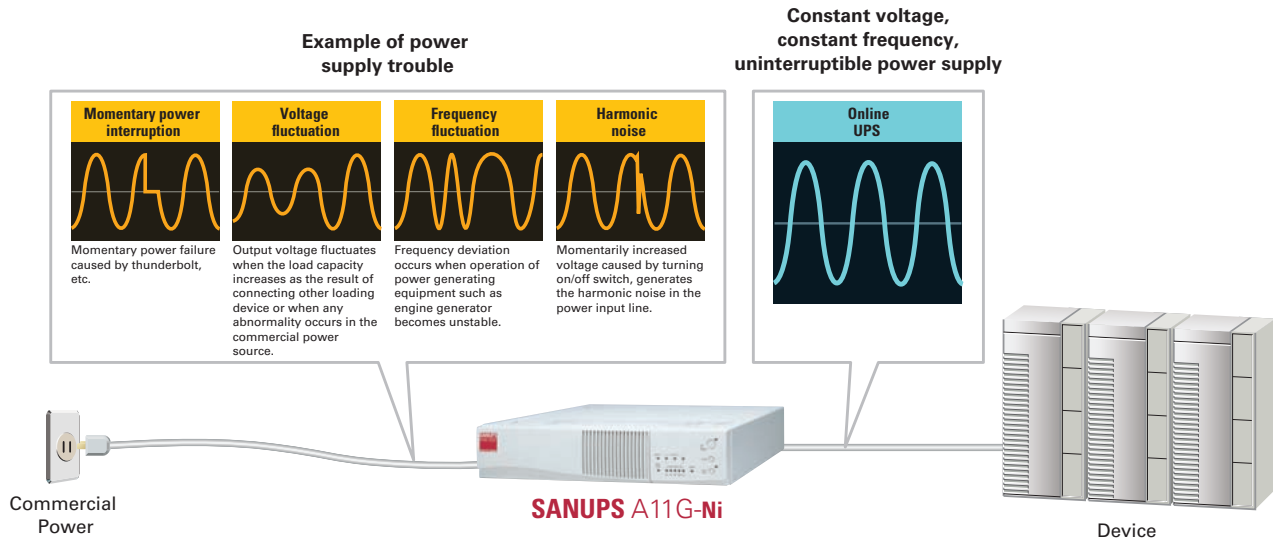
- 50% reduction in volume and 14 kg (31 lbs) reduction in weight compared with the existing model*.



*Comparison based on identical backup time.

3 Constant, Stable-Quality Power Supply

- The online UPS supplies continuous, high quality power at a constant voltage and frequency.
- Continuous power is supplied even in the event of power interruptions, voltage sags, or transients.
- No device malfunctions due to waveform distortion.

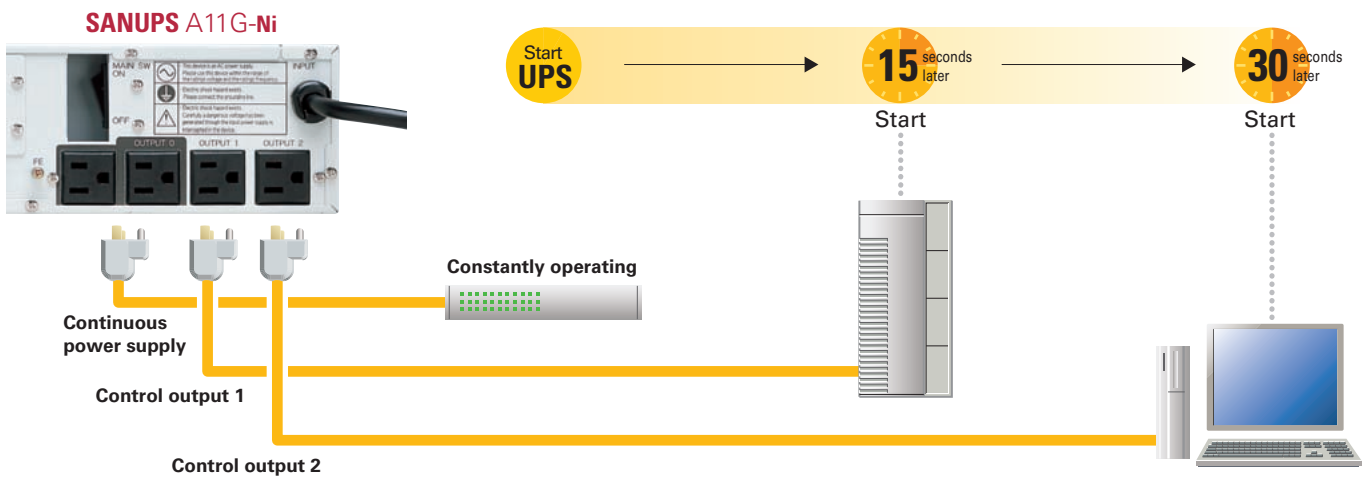


4 Easy and Reliable Sequential System Start and Stop

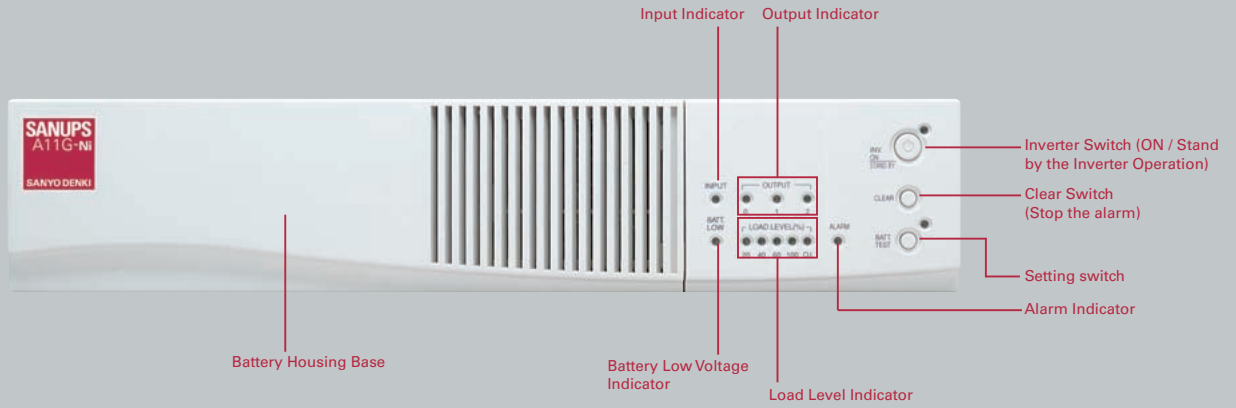
- Start-up and shut-down sequences can be easily controlled for devices that have critical power-on/off sequences, such as hard disks and servers.

*In the case of the 200 V model, control outputs 1 and 2 are simultaneously active.

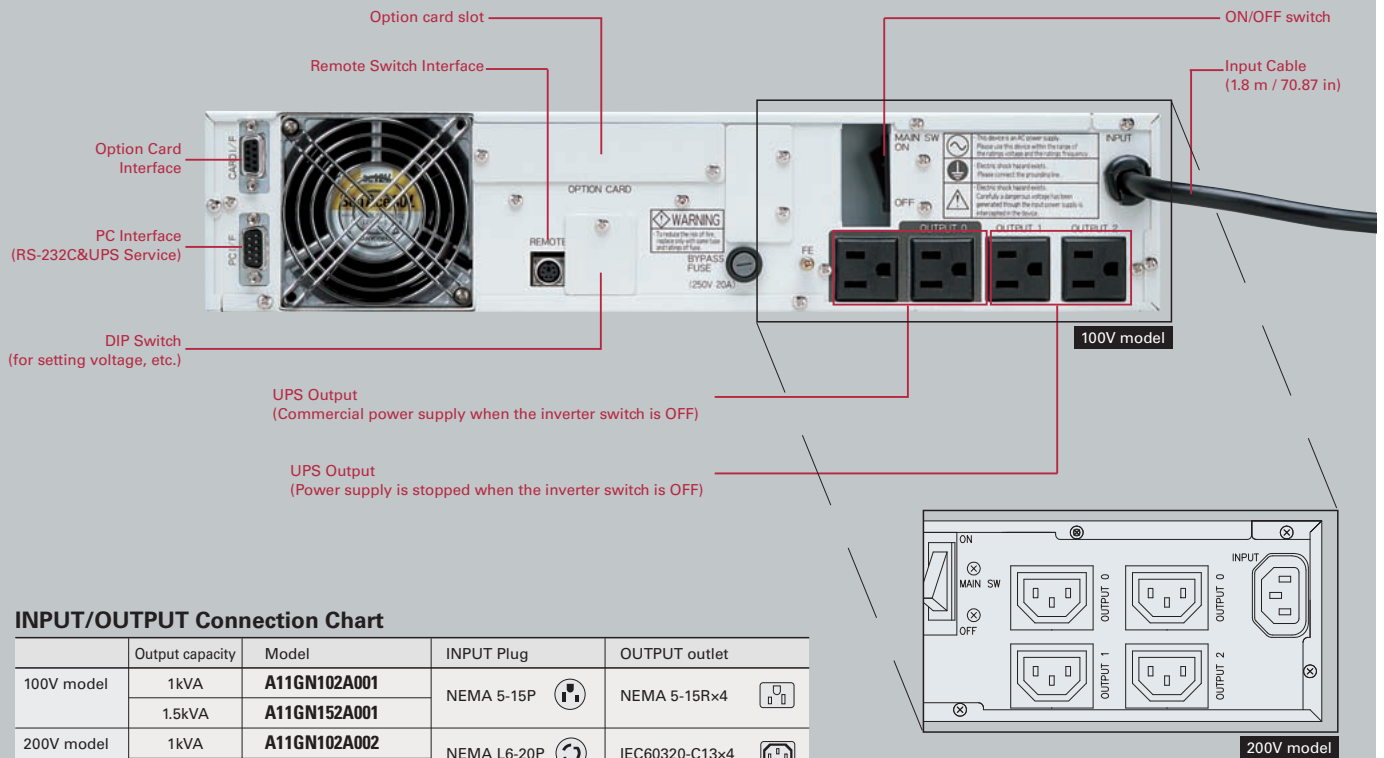
[Setting example]



Front



Back

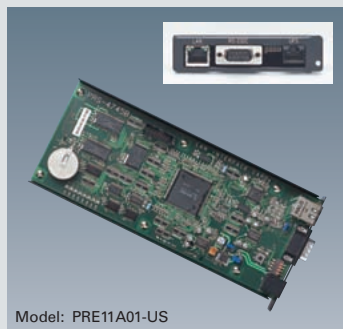


The photograph shows the 100 V model.

Option

LAN Interface Card

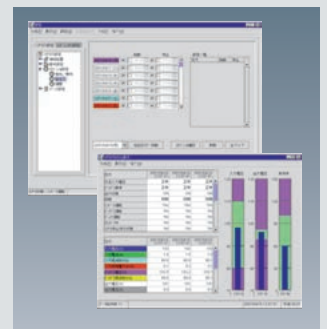
A LAN Interface Card (100Base-TX) can be inserted in the optional card slot. This allows for continuous monitoring and reporting of power conditions, and quick response during power failures. Power problems can also be reported to the System Manager via e-mail when this Card is installed.



Power Management Software

The SANUPS SOFTWARE UPS Power Management Software increases the reliability and manageability of the entire system, including the network and the server. It provides UPS information to the System Manager, and flexible settings for handling power-related problems.

- Supported OS
- WINDOWS (Japanese/English)
 - Linux (Japanese/English)
 - UNIX (Japanese/English)



Specifications

Series name		A11G-Ni				Notes	
Item	Model (Note5)	A11GN102A001	A11GN152A001	A11GN102A002	A11GN152A002		
Output capacity		1kVA/0.7kW	1.5kVA/1.05kW	1kVA/0.8kW	1.5kVA/1.2kW	Apparent power and active power (Note1)	
System	Topology	True On-Line, Double conversion					
	Input rectify system	IGBT PWM				IGBT	
	Cooling system	Forced Air					
	Inverter system	High-frequency PWM					
AC Input	Number of phase	Single-phase / 2-wire				(Note2)	
	Rated Voltage	100/110/115/120 ±15%		200/220/230/240 ±15%		Same as output voltage	
	Frequency	50/60Hz ±1,3,5%				The fluctuation range is the same as with the output frequency accuracy	
	Required capacity	0.9kVA	1.3kVA	1.0kVA	1.35kVA	Maximum capacity when the battery is recharged	
	Power factor	>0.95				When the input voltage distortion factor is less than 1%	
AC Output	Number of phase / wire	Single-phase / 2-wire					
	Rated Voltage	100/110/115/120V		200/220/230/240V			
	Voltage regulation	±2%					
	Nominal frequency	50Hz/60Hz				Same as the input frequency (auto-selection)	
	Frequency range	±1/3/5% (default 3%)				The setting can be changed Within ±0.5% during battery operation	
	Voltage distortion	Linear load	<3%				On rated output
		Non-linear load	<7%				On rated output
	Power factor	Nominal	0.7(lag)		0.8(lag)		
		Fluctuation range	0.7(lag) to 1.0				
	Transient voltage regulation	100% step load	±5%				On 0-100% change or on output change
		Power recovery	±5%				On rated output
		Input voltage step	±5%				±10% change
	Overcurrent protection		Automatically switched to the bypass circuit (With auto return function)				(Note3)
Overcurrent capacity	Inverter	105% (200ms)					
	Bypass	200% (30sec.), 800% (2cycle)					
Battery	Type	Cylindrical nickel-metal hydrogen battery				10 years life (25°C)	
	Backup time	12min.	18min.	10min.(0.7kW 12min)	15min.(1.05kW 18min)	Ambient at 77°F (25°C)	
Operation	Startup on battery	This function is supported				(Note4)	
Acoustic noise		<40dB				At 1 meter from the unit front	
Nominal heat dissipation		110W	145W	110W	145W		
Input current leak		<3mA					
Safety Standard		-	UL1778 (E226092), VCCI classA	-	-		
Environment		Operating temperature : 32 to 104°F (0 to 40°C), Relative humidity : 30 to 90% (Non-condensing)					

Note1 : The UL standard rated output capacity of A11GN152A001 is as follows.

Output voltage: 1.25 kVA/1.05 kW when 100 V is set, 1.35 kVA/1.05 kW when 110 V is set, 1.45 kVA/1.05 kW when 115 V is set, and 1.5 kVA/1.05 kW when 120 V is set.

Note2 : When grounding is connected, the grounding phase of the input and output wirings must follow the specification of the equipment.

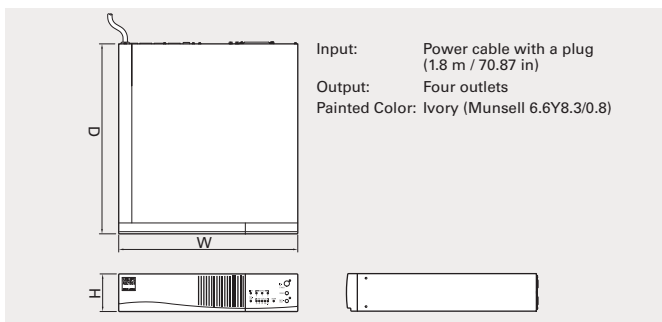
Note3 : The inverter runs in synchronization with the AC input and momentary switching without interruption become possible when the AC input frequency is within range of the rated output frequency accuracy and at the same time when the AC input voltage is within the range of nominal voltage ±15%.

Note4 : The normal inverter output can be obtained using the installed battery even if the AC power input source has any abnormalities (power failure or lowered voltage, etc.)

Note5 : The model varies depending on the setting of the I/O voltage.

I/O voltage	Model	
	1kVA	1.5kVA
100V	A11GN102A001	A11GN152A001
110V	A11GN102A001-10	A11GN152A001-10
115V	A11GN102A001-15	A11GN152A001-15
120V	A11GN102A001-20	A11GN152A001-20
200V	A11GN102A002	A11GN152A002
220V	A11GN102A002-20	A11GN152A002-20
230V	A11GN102A002-30	A11GN152A002-30
240V	A11GN102A002-40	A11GN152A002-40

Dimensions



Output capacity	Dimensions: mm (inch)			Mass: kg (lbs)
	Width (W)	Depth (D)	Height (H)	
1	410 (16.14)	540 (21.26)	86 (3.39)	19 (42)
1.5				24 (53)

Battery backup time


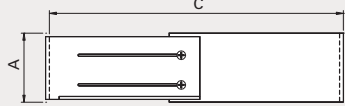
Output capacity	A11GN102	A11GN152
(W)	(min.)	(min.)
1200	-	15*
1050	-	18
1000	-	19
900	-	22
800	10*	26
700	12	31
600	16	38
500	19	46
400	25	55
300	37	76
200	52	-
100	90	-

*Only apply to the 200 V model.

Option

Item	Model	
Rack mounting brackets (EIA standard)	RMASEB02R	Used to mount and fasten the UPS to a 19-inch rack.
Rack support rail	RM014R	Used for mounting the UPS onto a 19 inch rack.
Remote switch	RSW006R	Used for remotely turning on or off outlets 1,2 of the UPS by wired control.
Contact signal interface card	PRASE02R	Transmits the operation status of the UPS by contact signals. Use to interface with UPS surveillance systems or customer equipment.

■ Rack support rail

○ Effective dimensions (when the rail is retracted to the minimum)		○ Effective dimensions (when the rail is extended to the maximum)	
			
A	B	C	
86.6 mm (3.41 in)	555 mm (21.85 in)	913 mm (35.94 in)	

Official Distributor

TOMINAGA ELECTRIC CO.,LTD

tominagadk.co.jp



■ Eco Products

Sanyo Denki's ECO PRODUCTS are designed with the concept of lessening impact on the environment in the process from product development to waste. The product units and packaging materials are designed for reduced environmental impact. We have established our own assessment criteria on the environmental impacts applicable to all processes, ranging from design to manufacture. Those products that satisfy the criteria are accredited as ECO PRODUCTS.

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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