

SANUPS E

HYBRID UPS

E11A



English





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

100V model						
Input	Output	0	utput capacit	.y		
AC100,110,115,120V Single-phase	AC100,110,115,120V Single-phase	1kVA (0.7kW)	1.5kVA (1.05kW)	2kVA (1.4kW)		
200V model						
Input	Output	0	utput capacit	:y		
AC200,208,220,230,240V Single-phase	AC200,208,220,230,240V Single-phase	1kVA (0.7kW		3kVA 2.1kW)		

The advancement of technology has increased the demand for quality power. In a perfect world, commercial power would always be stable and normal, however, we live in a world in which electricity from local utilities typically experiences anomalies such as spikes, surges, electrical noise, load fluctuations, and outages.

To protect your investments in technology equipment from these problems, informed users rely on SANYO DENKI SANUPS E11A products to resolve these power issues and provide continuous, clean power to connected equipment. Not only does the SANYO DENKI SANUPS E11A create continuous and clean power, it is an intelligent device in which power is consumed only when power conditions are unfavorable, making the unit highly efficient.

The SANYO DENKI SANUPS E11A Hybrid UPS provide highly efficient power protection to everything from heavy machinery and manufacturing devices to complex server systems and sensitive communication equipment (Voice and Data). With over 40 years of UPS experience, SANYO DENKI ensures the superior quality of the SANUPS E11A Hybrid UPS and provides the product equipped with extra long life batteries and a 3 year warranty. The SANUPS E11A Hybrid UPS - a product truly in a class of its own.



- 1 Hybrid UPS-Energy conservation
- 2 Self battery check feature
- 3 LAN Management options



Mounted in a 19-inch rack

- Includes metal brackets for 19 inch rack installation.
- ●Rack support rail is optional.



Vertical Installation

 Includes vertical stand for upright support.

Hybrid UPS-Energy conservation

Sanyo Denki combines both line interactive and double conversion UPS technologies in the SANUPS E11A Hybrid UPS, delivering 3 modes of operation for high efficiency and reliability.

Conversion efficiency of the SANUPS E11A is increased by 4% compared to comparable online UPS'.

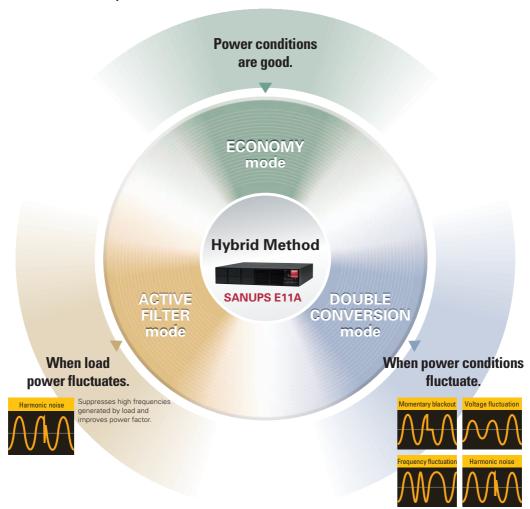
Commercial Power

SANUPS E11A

Load Device

- The Hybrid Type SANUPS UPS E11A automatically selects the most efficient mode of operation for any given power condition.
- Operating mode can be manually chosen and locked by the end user.

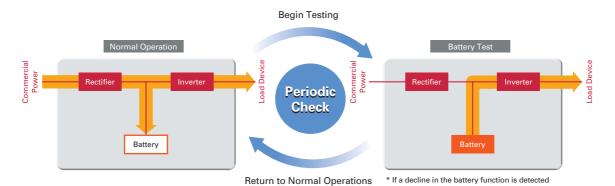
Different modes of operation:



Self battery check feature

The SANUPS E11A automatically performs regular battery tests for operation during a power outage, and maintains peak battery conditions for reliable operation during an actual power outage.

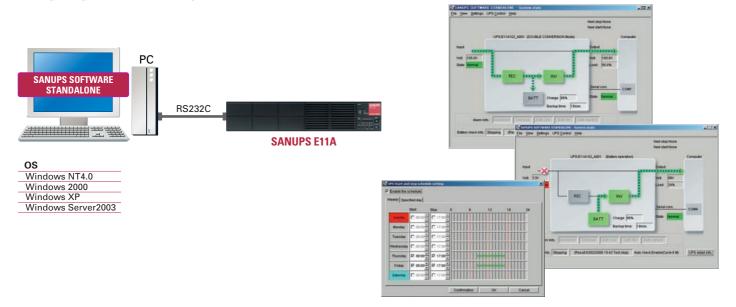
- * The frequency of the battery test is open to configuration. (Test frequency choices are 1, 3 and 6 months; the factory setting is 6 months.)
- * A LAN interface card (optional) is necessary to transmit the battery test results to the user's PC.



LAN Management options

To increase user control over equipment protection, our stand-alone windows compatible UPS Management Software "SANUPS SOFTWARE STANDALONE" is provided as a standard accessory. Use it to improve the utility of the UPS, through useful functions such as monitoring UPS performance over a network connection and configuring shutdown settings.

during test mode, normal operation will resume.



Options

LAN Interface Card

A LAN Interface Card (100Base-TX) can be inserted in the optional card slot on the rear panel of the SANUPS E11A. 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.

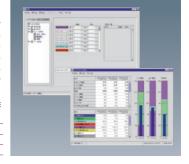


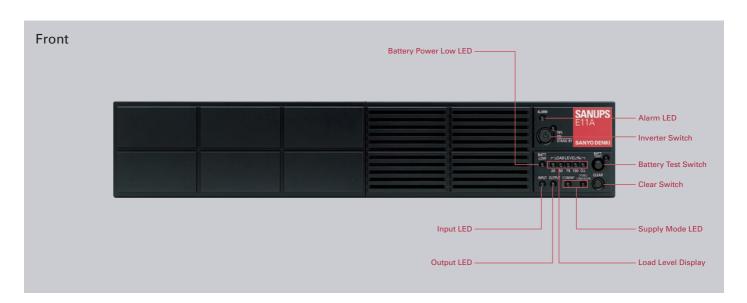
SANUPS SOFTWARE

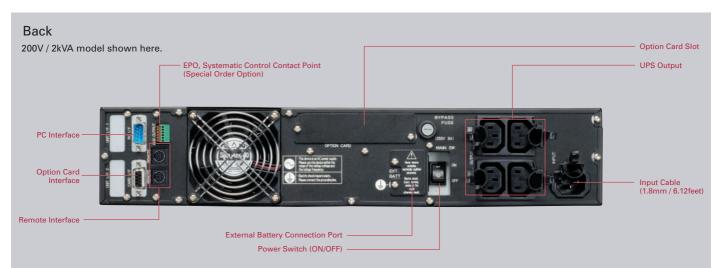
The SANUPS SOFTWARE UPS Power Management Software increases the reliability and manageability of the entire system, including the network and the server. It provides UPS information to the System Manager, and flexible settings for handling power-related problems.

*OPTIONAL LINUX / UNIX SOFTWARE AVAILABLE

os	
Windows (English)	
Linux (English)	
Unix (English)	







Interface & INPUT/OUTPUT Connection Chart

	Output (kVA)	Model*3	PC (RS-232C/UPS Service)	Remote	EPO*1	Systematic Control Contact Point	LAN Interface card (Option)	Contact signal interface card (Option)	INPUT Plug/Connection	OUTPUT Plug/Connection
100V model	1	E11A102A001	0	_	_	_	0		NEMA 5-15P	NEMA 5-15R×6
(100 to 120V)		E11A102A011	0	0	0	0	0	0		
	1.5	E11A152A001USJ	0	_	_	_	0	_	NEMA 5-20P	NEMA 5-20R×4
		E11A152A011USJ	0	0	0	0	0	0		
	2	E11A202A001USJ	0	_	_	_	0	_	NEMA L5-30P	NEMA L5-30R×1
		E11A202A011USJ	0	0	0	0	0	0		
200V model	1	E11A102A002□□□	0	_	_	_	0	_	IEC60320-C14*2	IEC60320-C13 x4
(200 to 240V)		E11A102A012	0	0	0	0	0	0		
	3	E11A302A002□□□	0	_	_	_	0	_	IEC60320-C20*2	IEC60320-C19 x3
		E11A302A012□□□	0	0	0	0	0	0		

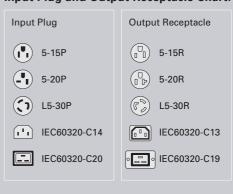
Special order item. Please contact you local sales representative for details.

^{*2} Please choose an input plug from the chart below.

Input Plug		*3
C TYPE	•	USE
O TYPE	€	С
NEMA L6-15P	(C)	USJ
NEMA L6-20P	(3)	USJ

^{*3} The AC200V's model end number (3 figures at the maximum) changes depending on the chosen input plug.

Input Plug and Output Receptacle Chart:

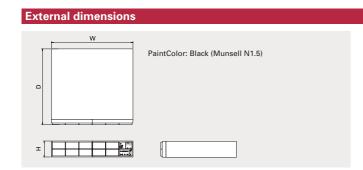


^{*1} EPO=Emergency Power Off

Specifications

Item		E11A			Remarks	
			Economy mode	Active filter mode	Double Conversion mode	
Output power	Output power		1kVA(0.7kW)/ 1.5kVA(1.05kW)/ 2kVA(1.4kW)/ 3kVA(2.1kW)			
System	Topology		Hybrid			
	Cooling		Forced Air			
AC Input	Number of phase	/ wire	Single-phase / 2 wire			
	Nominal voltage	100V model	AC100,110,115,120V: 1kVA/1.	5kVA/2kVA		
		200V model	AC200,208,220,230,240V: 1kV			
	Voltage range		-15%,+20% Max.			
	Frequency		50/60Hz Auto-sensing			
	Frequency range		±1/3/5% Max.		±10%Max.	User selectable
	Power factor		0.7(lag)	0.9Min.	0.95Min.	<1% Input voltage distortion
AC Output	Number of phase	/ wire	Single-phase / 2 wire			
	Power factor		0.7(lag)			
	Nominal voltage	100V model	AC100,110,115,120V: 1kVA/1.5kVA/2kVA			
		200V model	AC200,208,220,230,240V: 1kV	/A/3kVA		
	Voltage regulation		±10%Max.	±5%Max.	±2%Max.	
	Frequency		Same as Input frequency			Same as input frequency
	Frequency range	On Normal Operation	±1/3/5% Max.		±1% 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 voltage	Input Voltage step	±5%Max.			Power failure: feedback or supply fluctuation
	regulation	100% step load	-		±5%Max.	0% : at the time of 100% sudden fluctuation
	Overcurrent capa	city	Greater than 200% (30 second	d interval)	105%(200ms)	Rated load power factor / at rated input
			Greater than 800% (2 cycle) -			
Overcurrent p	protection		Fuse Protection (1kVA), Breaker Protection (1.5, 2, 3kVA) Bypass Non-Hit Change (Auto Return)			
Battery	Туре		Maintenance Free Sealed Lea	d-Acid Battery (small)		
	Backup time		5 minutes			Ambient Temp. of 25°C, under rated load
Acoustic noise		40dB Max. (1kVA,1.5kVA,2kVA	a), 45dB MAX.(3kVA)		At 1m (40in) from the front of unit	
Nominal heat	dissipation		40W/55W/75W/110W	65W/90W/125W/185W	125W/185W/250W/370W	1kVA/1.5kVA/2kVA/3kVA
Environment	Operating temper	rature	0 to 40℃			
	Relative humidity		20 to 90%			Non-condensing
Standard of safety		UL(E226092), CE, FCC Part15 Subpart B Class A				

A momentary power interruption lasting less than 3 ms occurs when switching from Economy Mode or Active Filter Mode to battery power. The unit can also be fixed to the Double Conversion Mode for applications that require zero transfer time from utility power to battery power. Please contact your local sales representative for additional input and ouput voltage options.



Output power	Dimensions		Mass (Weight)	
(kVA)	Width (W)	Depth (D)	Height (H)	
1kVA		408mm (16.06in)	86mm (3.39in)	17kg (37.5lbs)
1.5kVA	440 (17.20:)	500mm (19.66in)		22kg (48.5lbs)
2kVA	440mm (17.32in)	565mm (22.24in)		29kg (63.9lbs)
3kVA		750mm (29.53in)		37kg (81.6lbs)

Run-time chart E11A102A E11A152A E11A202A E11A302A Maximum Output (VA) Maximum Output (W) VA Run-time (Min)

The above run-time value assumes a load power factor = 0.7.

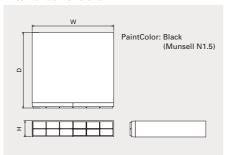
Figures should be used for reference only. Actual backup times depend on charging conditions, ambient temperature, years in use, etc.

Option						
Item	Model					
Rack support rail	RM014R	Used for mounting the UPS onto a 19 inch rack. Supports depth of 555mm-913mm.				
Remote switch	RSW006R	Used for remotely turning on or off outlets 1,2 of the UPS.				
Contact signal interface card	PRASE02R	Transmits contact signals containing information on the operation status of the UPS. Use to interface with UPS surveilance systems or customer equipment.				

■External battery

Output Power		(Min)		
(kVA)	20	30	40	60
1	BCE11A102A01	BCE11A102A02	BCE11A102A01 (x2)	BCE11A102A02 (x2)
1.5	BCE11A152A01	BCE11A152A02	BCE11A152A01 (x2)	BCE11A152A02 (x2)
2	BCE11A202A01	BCE11A202A02	BCE11A202A01 (x2)	BCE11A202A02 (x2)
3	BCE11A302A01	_	BCE11A302A01 (x2)	_

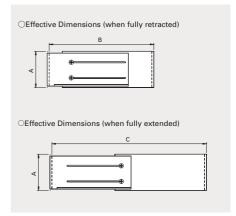
External demensions



Model	Dimension	Mass			
wodei	Width	Depth Height		(Weight)	
BCE11A102A01	440 (17.32in)	408(16.06in)	86 (3.39in)	20(9.07lbs)	
BCE11A102A02		508(20in)		29(13.15lbs)	
BCE11A152A01		500(19.66in)		26 (11.79lbs)	
BCE11A152A02		600(23.62in)		38(17.24lbs)	
BCE11A202A01		565(22.24in)		34(15.42lbs)	
BCE11A202A02		630(24.80in)		47(21.32lbs)	
BCE11A302A01		750(29.53in)		50(22.68lbs)	

■Support rail

External demensions



A	В	С	
86.6mm (3.41in)	555mm (21.58in)	913mm (35.94in)	

■ ECO PRODUCTS



ECO PRODUCTS are designed with the goal of lessening environmental impact, from product development to disposal.



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.

 $\ensuremath{\ensuremath{\%}}$ For any inquiry or consultation, please contact our sales representative.

Our company has acquired ISO9001 assessments.

Products shown by this catalog are manufactured by the plants that are controlled by the severe quality control system conforming to the ISO9001 assessments.

SANYO DENKI CO., LTD. 1-15-1, Kita-Otsuka, Toshima-ku, Tokyo 170-8451, Japan

SANYO DENKI AMERICA,INC.

468 Amapola Avenue Torrance, CA 90501 U.S.A.

SANYO DENKI EUROPE SA.

P.A. Paris Nord II 48 Allee des Erables-VILLEPINTE BP.57286 F-95958 ROISSY CDG Cedex France

SANYO DENKI GERMANY GmbH

Frankfurter Strasse 63-69 65760 Eschborn Germany Phone: +49 6196 76113 0

SANYO DENKI KOREA CO., LTD.

9F 5-2, Sunwha-dong Jung-gu Seoul, 100-130, Korea Phone: +82 2 773 5623

SANYO DENKI SHANGHAI CO., LTD.

Room 2116, Bldg B, FAR EAST INTERNATIONAL PLAZA, No.317 XianXia Rd., Shanghai 200051 China Phone: +86 21 6235 1107

SANYO DENKI TAIWAN CO., LTD.

Room 1208, 12F, No.96 Chung Shan N, Rd., Sec.2, Taipei 104, Taiwan, R.O.C. Phone: +886 2 2511 3938

SANYO DENKI (H.K.)CO., LIMITED

Room 2305, 23/F, South Tower, Concordia Plaza, 1 Science Museum Rd., TST East, Kowloon, Hong Kong
Phone: +852 2312 6250

SANYO DENKI SINGAPORE PTE. LTD.

10 Hoe Chiang Road #14-03A/04 Keppel Towers Singapore 089315 Phone: +65 6223 1071

*Remarks : Specifications Are Subject To Change Without Notice.

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http://www.sanyodenki.com

Phone: +81 3 3917 5157

Phone: +1 310 783 5400

Phone: +33 1 48 63 26 61