



SANYO DENKI

Hybrid UPS

SANUPS E11B-Li

UPS That Achieves Power Quality and Efficiency and Can Be Used Worldwide



Lineup:

Achieves Both High-Quality Power Supply and Energy Saving

 This UPS provides high-quality, reliable power to loads while achieving energy saving.

Thanks to the hybrid topology,⁽¹⁾ the UPS automatically selects the optimal mode of operation for any given input power conditions.



When power conditions are faulty

(1) A UPS design that automatically switches the double conversion and standby topologies according to the input power conditions.

Reduced Maintenance Work

Our conventional UPSs⁽²⁾ using lead-acid batteries require battery replacement in about 5 years. Thanks to Li-ion batteries, this UPS doesn't require battery replacement for 10 years.⁽³⁾ Thus, the cost of battery replacement can be reduced.

(2) Conventional UPS: E11B (with lead-acid batteries)(3) At a 30°C ambient temperature.

Wide Operating Temperature Range

 The operating temperature range is -10 to +55°C.
 This provides the product with a higher degree of freedom of installation, allowing it to be installed in locations with large temperature differences.

Compliance with Safety Standards

• This UPS conforms to UL and EN safety standards and CE Marking. It can be used with confidence in various regions.

[No. of phases/wires] Input/Output voltage	Output capac [kVA]	ity [kW]	Battery backup time*	Input plug	UL/CE certification	Model no.	Page Specifications	Dimensions
[Single-phase 2-wire]	1	0.8	4 min	NEMA 5-15P	\checkmark	E11BL102A001AUJ	p. 4	р. З
100 V model	1.5	1.2		NEMA 5-20P	\checkmark	E11BL152A001AUJ	p. 4	р. З
100/110/115/120 V	2	1.6		NEMA L5-30P	~	E11BL202A001AUJ	p. 4	р. З
	1	0.8	- 4 min	IEC60320-C14	\checkmark	E11BL102A002AUJ	p. 5	р. З
[Single-phase 2-wire]	I			NEMA L6-20P	\checkmark	E11BL102A012AUJ	p. 5	р. З
200/208/220/230/240 V	2	1.6		IEC60320-C20	~	E11BL202A002AUJ	p. 5	р. З
	Ζ			NEMA L6-20P	~	E11BL202A012AUJ	p. 5	р. З

* At a 25°C ambient temperature, 0.8 load power factor, using new, fully charged batteries.



SANUPS E11B-Li



Power input

Operation screen examples



Scheduled operation

• UPS status display

• Message display

• UPS event log

Battery Cold Start Function

Batteries can start up the UPS even when grid AC power is not available, enabling inverter operation.

With this function enabled, the UPS can be used as an emergency power supply in the event of a natural disaster or emergency. The default setting is "Disabled."



Dimensions (Unit: mm)





Output canacity	D1	D2	Mass
		02	101033
1 kVA	381	320	12 kg
1.5 kVA	473	412	15 kg
2 kVA	538	477	18 kg

Hybrid UPS SANUPS E11B-Li

Specifications

100 y model UL/CE certified models

In explorer in	Model no				E11 DI 1020001 AULI	E11DI 1520001011	E11 DI 202 A001 AULI		
AC option to the second	Ill_rogistoro	- d no	••••		E11BL102A001A03	E11BL15210011			
AC input: Table Data Data Data Data Data Data Data Dat	DL-Tegistere	t appagity (apparent pour	or / active new	ion l					
Technology	Rated output capacity (apparent power / active power)					1.0 KVA / 0.8 KW 1.5 KVA / 1.2 KW 2.0 KVA / 1.6 KW			
AC input Acting in framework Single plane 2 wine* Name Index wines Single plane 2 wine* Name Index wine* Single plane 2 wine* Name Index wine* Single plane 2 wine* Required capacity* In Dauble Conversion mode Wine 1 Name Index wine* Single plane 2 wine* Single plane 2 wine* Required capacity* In Dauble Conversion mode Wine 1 Name Name In Dauble Conversion mode Wine 1 Name Single plane 2 wine* Read wingle Champeabe wine acting a wine 2 wine Single plane 2 wine Single plane 2 wine Read wingle Champeabe wine acting a wine 2 wine acting a wine 2 wine 2 wine actingle wine 2 wine 2 wine 2 wine* Single	Technology								
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AC input Not in Economy and with a 25% of raid of lease (5% 80 to 140 V Actional level 2.7% 80		Voltage range	In Double Con	version mode	At load level < 70%: 68 to 144 V		At load level < 70%: 68 to 140 V		
AC input AC inp					At load level ≥ 70%: 80 to 144 V		At load level ≥ 70%: 80 to 140 V		
AC input AC input AC input Action and a frequency input Action and action			In Economy m	ode	Within ±8% of rated voltage				
AC only 1 Prequency range ¹⁰	AC input	Rated frequency			50/60 Hz (auto-sensing)				
Prequency range ¹⁰ In automatic transfer setting 40 to 120 ht (Asynchroneus operation range) 40 to 120 ht (Asynchroneus operation range) Required capachy ¹⁰ In automatic transfer setting Within ±1, or 5% or rand Prequency (Factory setting is ±3%; synchroneus and peration range) Note that setting 11 kWA or less 12 kWA or less Note that setting 100 to 120 ht (Asynchroneus operation range) 22 kWA or less Note that setting 11 kWA or less 12 kWA or less Note that setting 100 to 120 ht (Asynchroneus operation range) 12 kWA or less Note that setting 100 to 120 ht (Asynchroneus operation range) 100 to 120 ht (Asynchroneus operation Note that setting required in the boole Conversion mode with ±1% of rated frequency (Factory setting: ±2%) Interpretent 2060 ht 20 ht (Asynchroneus operation) Note that setting required in the setting required in		In Double Conversion mode fixed setti		version mode fixed setting	Within ±1% of rated frequency (Sy	nchronization range)			
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Required capacity ¹¹ Interview Interview <thinterview< th=""></thinterview<>		I requeitcy range	In outomotic transfer acting		Within \pm 1, 3, or 5% of rated frequency (Factory setting is \pm 3%; synchronization range)				
Required capacity/in 1.1 kVA or less 1.5 kVA or less 1.2 kVA or less No. of phases/wire 0.0 of phase 2-wire Single-phase 2-wire Single-phase 2-wire No. of phase/wire In Double Conversion mode Writin ±2% of rated voltage In Orabic Conversion mode Writin ±2% of rated voltage Reader frequency (same -single-phase 2-wire) Single-phase 2-wire Single-phase 2-wire Single-phase 2-wire Reader frequency (same -single-phase 2-wire) Single-phase 2-wire Single-phase 2-wire Single-phase 2-wire Reader frequency (same -single-phase 2-wire) Single-phase 2-wire Single-phase 2-wire Single-phase 2-wire Reader frequency (same -single-phase 2-wire) Single-phase 2-wire Writin ±1% of rated voltage Single-phase 2-wire Reader frequency (same -single-phase 2-wire) In automatic transfer straing synchronous operation Writin ±1% of rated voltage Single-phase 2-wire Reader frequency (same -single-phase 2-wire) At linear load Single-phase 2-wire Single-phase 2-wire Value harmonic distry At linear load Single-phase 2-wire Single-phase 2-wire Single-phase 2-wire To same single-phase 2-wire At linear load <					40 to 120 Hz (Asynchronous operation range)				
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Rated voltage (Changeable with setting) 100/11/11/11/11/11/11/11/11/11/11/11/11/		No. of phases/wires			Single-phase 2-wire				
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Procession volume		Load nower factor	Bated	, a roodinor roud	0.8 lagging (Variation range: 0.7 lag	uging to 1.0)			
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fluctuation For about input young change Writin 25% of rated voltage [For ±10% abrupt change] Overload capability Inverter In Double Conversion mode 105% (for 200 ms) Overload capability Inverter In Double Conversion mode 105% (for 200 ms) Battery Battery capacity 4 min Expected life ^{min} Approx. 10 years Battery capacity 40 Ah-cell 60 Ah-cell 80 Ah-cell Battery self-test Can be enabled (Factory setting: "disabled") Inverter PC port Remote port Remote port 80 Ah-cell Battery capacity A Ah-cell 60 Ah-cell 80 Ah-cell Battery capacity Can be enabled (Factory setting: "disabled") Inverter Remote port Remote DV/OFF Remote DV/OFF Remote DV/OFF Dry contact Optional dry contact interface card is required 55 dB Heat dissipation 130 W 195 W 260 W (in Duble Conversion mode) 3 mA or less 3.5 mA or less Operating environment ¹⁰ Ambient temperature: -15 to +60 ¹ C; relative humidity: 20 to 90% (non-condensing) Safety standard U1778 5th edition (E28902, LOS & C22.2010, EN Storge, EN		Transient voltage	For loss or ret	urn of input nower	Within ±5% of rated voltage (At rated output)				
Interface Interface Antonautic transfer to bypas (With automatic retransfer function) Overcurrent protection In Double Conversion mode 10% (for 20 cples) Bypas 200% (for 30 s), 800% (for 2 cples) Image: State		fluctuation	For obrunt input voltage change		Within ±5% of rated voltage (For ±10% abrunt change)				
Automatic regramment Numerer In Double Conversion mode Down of the function of the fun		Overcurrent protection			Automatic transfer to hypers (With automatic retransfer function)				
Overload capability Introduction conversion mode 103 % (for 30 s), 800% (for 2 cycles) Battery Type Lithium-ion battery Battery backup time ¹⁰ 4 min Expected life ¹⁰ Approx. 10 years Battery capacity 0 Ah-cell 60 Ah-cell 80 Ah-cell Battery self-test Can be enabled (Factory setting: "disabled") 80 Ah-cell Brenter port Remote port 87.322C, USB Type B ⁽⁷⁾ (Cannot be used at the same time) Remote port Optional dry contact interface card is required Dry contact Optional dry contact interface card is required Network support Optional LAN interface card is required Accustic noise (In Double Conversion mode) 51 dB 52 dB Heat dissipation 130 W 195 W 260 W Input leakage current (Including during asynchronous operation) 3 mA or less 3.5 mA or less Operating environment Ambient temperature: -10 to +55° C ¹⁰ , relative humidity: 20 to 90% (non-condensing) Safety standard Ut 1778 5th edition (E226092), CSA C22.2 No. 107.3-14 (3rd edition), CE marking (EN 62040-1:2008/A1:2013) VCCI 32-1 Class A FCC Part 15 Subpart B Class A, EN 62040-2 C2:2010, EN 55024:2010 EN 55024:2010 Separate options VCCI 32-1 Class A, EN 62040-2 C2:2010, EN 55024:2010 Vertical stands STAND2UA00 </td <td></td> <td></td> <td>Invertor</td> <td>In Double Conversion mode</td> <td colspan="4">Automatic transfer to bypass (With automatic retransfer function)</td>			Invertor	In Double Conversion mode	Automatic transfer to bypass (With automatic retransfer function)				
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http://pe Cliniterion Datatery Battery backup time ⁽⁶⁾ 4 min Expected life ⁽⁶⁾ Approx. 10 years Battery capacity 40 Ah-cell 60 Ah-cell 80 Ah-cell Battery self-test Can be enabled (Factory setting: "disabled")		Tupo			Lithium ion batton				
Battery Data by Jock App date 4 min Expected life ^[6] Approx. 10 years Battery capacity 40 Ah-cell 60 Ah-cell 80 Ah-cell Battery self-test Can be enabled (Factory setting: "disabled") 80 Ah-cell Remote port Remote ON/OFF Interface Interface Interface Remote port Optional dry contact interface card is required Interface Network support Optional dry contact interface card is required S5 dB Heat dissipation In 30 W 195 W 260 W Input leakage current (Including during asynchronous operation) 3 mA or less 3.5 mA or less Operating environment Ambient temperature: -15 to +60° C; relative humidity: 20 to 90% (non-condensing) Storage environment ⁽⁶⁾ Storage environment ⁽⁶⁾ WCC1 32-1 Class A, EN 62040-2: 2006, EN 55024:2010 EN 62040-1:2008/A1:2013) VCC1 32-1 Class A FCC Part 15 Subpart B Class A, EN 62040-2: 2006, EN 55024:2010 Storage environ Storage environs Storage environ Storage environ Storage environ Separate options VCC1 32-1 Class A ENC 52022:000, EN 55024:2010 EN 55024:2010 Separate options Storage environ		Type			A min				
Battery Expected intermediation Approx. To years Battery capacity 40 Ah-cell 60 Ah-cell 80 Ah-cell Battery capacity Gan be enabled (Factory setting: "disabled")	Detter	Battery backup time'"							
Battery capacity Go Ant-Cen Bot Ant-Cen Bot Ant-Cen Battery self-test Can be enabled (Factory setting: "disabled") PC port Rs-232C, USB Type B th (Cannot be used at the same time) Remote DN/OFF Interface Remote port Optional dry contact interface card is required Acoustic noise (In Double Conversion mode) 51 dB 52 dB 55 dB Heat dissipation (In Double Conversion mode at rated output, after battery charging completed) 130 W 195 W 260 W Input leakage current (Including during asynchronous operation) 3 mA or less 3.5 mA or less 3.5 mA or less Operating environment Ambient temperature: -10 to +55" C; ⁴⁰ relative humidity: 20 to 90% (non-condensing) Storage environment ⁴⁰ Storage environment ⁴⁰ VCI 32-1 Class A EMC standard VCI 32-1 Class A FCC Part 15 Subpart B Class A, EN 62040-2:2:000, EN 55024:2010 EN 62040-1:2:008/A1:2013) Separate options VCI as A, EN 62040-2:2:006, EN 55024:2010 EN 55022:2010 Class A, EN 62040-2:2:006, EN 55024:2010 EN 55024:2010	Dallery	Expected life "				00 Ab			
Battery series: Can be enabled (Factory setting: disabled) PC port RS-232C, USB Type B ⁽⁷⁾ (Cannot be used at the same time) Remote port Remote ON/OFF Dry contact Optional dry contact interface card is required Acoustic noise (In Double Conversion mode) 51 dB Heat dissipation (In Double Conversion mode at rated output, after battery charging completed) 130 W Input leakage current (Including during asynchronous operation) 3 mA or less Operating environment Ambient temperature: -10 to +55° C, ^(#) relative humidity: 20 to 90% (non-condensing) Storage environment ^(#) Ambient temperature: -15 to +60° C; relative humidity: 20 to 90% (non-condensing) Safety standard UL 1778 5th edition (E226092), CSA C22.2 No. 107.3-14 (3rd edition), CE marking (EN 62040-1:2008/A1:2013) VCCI 23-1 Class A FCC Part 15 Subpart B Class A, EN 62040-2 C2:2010, EN 55022:2010 Class A, EN 62040-2:2006, EN 55024:2010		Battery capacity			40 An-cell		80 An-cell		
Interface PC port Rs-232C, USB Type B** (Cannot be used at the same time) Remote port Remote port Remote ON/OFF Dry contact Optional dry contact interface card is required Acoustic noise (In Double Conversion mode) 51 dB 52 dB 55 dB Heat dissipation (In Double Conversion mode at rated output, after battery charging completed) 130 W 195 W 260 W Input leakage current (Including during asynchronous operation) 3 mA or less 35 mA or less 35 mA or less Operating environment Ambient temperature: -10 to +55° C; [®] relative humidity: 20 to 90% (non-condensing) Storage environment [®] Storage environment [®] Ambient temperature: -15 to +60° C; relative humidity: 20 to 90% (non-condensing) Storage environment [®] Safety standard UL 1778 5th edition (E226092), CSA C22.2 No. 107.3-14 (3rd edition), CE marking (EN 62040-1:2008/A1:2013) VCCI 32-1 Class A FCC Part 15 Subpart B Class A, EN 62040-2 C2:2010, EN 55024:2010 EM 55022:2010 Class A, EN 62040-2 C2:2010, EN 55024:2010 EN 55022:2010 Class A, EN 62040-2 C2:2010, EN 55024:2010 EN 55024:2010 Separate options Vertical stands STAND2UA00 STAND2UA00 EN 55024:2010		Battery self-test			Lan be enabled (Factory setting: (disabled)			
Interface Remote port Remote port Dry contact Optional dry contact interface card is required Acoustic noise (In Double Conversion mode) 51 dB 52 dB 55 dB Heat dissipation (In Double Conversion mode at rated output, after battery charging completed) 130 W 195 W 260 W Input leakage current (Including during asynchronous operation) 3 mA or less 3.5 mA or less Operating environment Ambient temperature: -10 to +55° C; ⁽⁶⁾ relative humidity: 20 to 90% (non-condensing) Storage environment ⁽⁹⁾ Ambient temperature: -15 to +60° C; relative humidity: 20 to 90% (non-condensing) Safety standard UL 1778 5th edition (E226092), CSA C22.2 No. 107.3-14 (3rd edition), CE marking (EN 62040-1:2008/A1:2013) VCCI 32-1 Class A FCC Part 15 Subpart B Class A, EN 62040-2 :2006, EN 55024:2010 EMC standard Separate options STAND2UA00		PC port			RS-2326, USB Type B "(Cannot be used at the same time)				
Dytonal dry contact Uptional dry contact interface card is required Network support Optional LAN interface card is required Acoustic noise (In Double Conversion mode) 51 dB 52 dB 55 dB Heat dissipation (In Double Conversion mode at rated output, after battery charging completed) 130 W 195 W 260 W Input leakage current (Including during asynchronous operation) 3 mA or less 3.5 mA or less 3.5 mA or less Operating environment Ambient temperature: -10 to +55° C; ⁽⁸⁾ relative humidity: 20 to 90% (non-condensing) 3.5 mA or less 3.5 mA or less Storage environment ⁽⁹⁾ Ambient temperature: -15 to +60° C; relative humidity: 20 to 90% (non-condensing) Sefety standard UL 1778 5th edition (E226092), CSA C22.2 No. 107.3-14 (3rd edition), CE marking (EN 62040-1:2008/A1:2013) EMC standard VCCI 32-1 Class A FCC Part 15 Subpart B Class A, EN 62040-2 :2:006, EN 55024:2010 Separate options Vertical stands STAND2UA00 STAND2UA00 STAND2UA00	Interface	Remote port			Remote UN/UFF				
Interview of support Uptional LAN interface card is required Acoustic noise (In Double Conversion mode) 51 dB 52 dB 55 dB Heat dissipation (In Double Conversion mode at rated output, after battery charging completed) 130 W 195 W 260 W Input leakage current (Including during asynchronous operation) 3 mA or less 3.5 mA or less Operating environment Ambient temperature: -10 to +55° C; ⁶⁰ relative humidity: 20 to 90% (non-condensing) Storage environment ⁽⁹⁾ Ambient temperature: -15 to +60° C; relative humidity: 20 to 90% (non-condensing) Safety standard UL 1778 5th edition (E226092), CSA C22.2 No. 107.3-14 (3rd edition), CE marking (EN 62040-1:2008/A1:2013) FMC standard FCC Part 15 Subpart B Class A, EN 62040-2 C2:2010, EN 55022:2010 Class A, EN 62040-2:2006, EN 55024:2010 Separate options STAND2UA00		Dry contact			Uptional dry contact interface card is required				
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Heat dissipation (In Double Conversion mode at rated output, after battery charging completed) 130 W 195 W 260 W Input leakage current (Including during asynchronous operation) 3 mA or less 3.5 mA or less Operating environment Ambient temperature: -10 to +55° C, ^(#) relative humidity: 20 to 90% (non-co-ndensing) Storage environment ^(#) Safety standard UL 1778 5th edition (E226092), CSA C22.2 No. 107.3-14 (3rd edition), CE mrking (EN 62040-1:2008/A1:2013) EMC standard VCCI 32-1 Class A FCC Part 15 Subpart B Class A, EN 62040-2 C2:2010, EN 55022:2010 Class A, EN 62040-2:2006, EN 55024:2010 Separate options Vertical stands STAND2UA00 STAND2UA00	Acoustic noi	ise (In Double Conversion	1 mode)		51 dB	52 dB	55 dB		
Input leakage current (Including during asynchronous operation) 3 mA or less 3.5 mA or less Operating environment Ambient temperature: -10 to +55° C, ⁽⁸⁾ relative humidity: 20 to 90% (non-condensing) Storage environment ⁽⁹⁾ Ambient temperature: -15 to +60° C; relative humidity: 20 to 90% (non-condensing) Safety standard UL 1778 5th edition (E226092), CSA C22.2 No. 107.3-14 (3rd edition), CE marking (EN 62040-1:2008/A1:2013) EMC standard VCCI 32-1 Class A FCC Part 15 Subpart B Class A, EN 62040-2 C2:2010, EN 55022:2010 Class A, EN 62040-2:2006, EN 55024:2010 Separate options Vertical stands Vertical stands STAND2UA00	Heat dissipa (In Double C	tion Conversion mode at rated	l output, after ba	attery charging completed)	130 W	195 W	260 W		
Operating environment Ambient temperature: -10 to +55° C; ⁽⁸⁾ relative humidity: 20 to 90% (non-condensing) Storage environment ⁽⁹⁾ Ambient temperature: -15 to +60° C; relative humidity: 20 to 90% (non-condensing) Safety standard UL 1778 5th edition (E226092), CSA C22.2 No. 107.3-14 (3rd edition), CE marking (EN 62040-1:2008/A1:2013) EMC standard VCCI 32-1 Class A FCC Part 15 Subpart B Class A, EN 62040-2 C2:2010, EN 55022:2010 Class A, EN 62040-2:2006, EN 55024:2010 Separate options Vertical stands Vertical stands STAND2UA00	Input leakag	e current (Including duri	ng asynchronol	us operation)	3 mA or less		3.5 mA or less		
Storage environment ⁽⁹⁾ Ambient temperature: -15 to +60° C; relative humidity: 20 to 90% (non-condensing) Safety standard UL 1778 5th edition (E226092), CSA C22.2 No. 107.3-14 (3rd edition), CE marking (EN 62040-1:2008/A1:2013) VCCI 32-1 Class A FCC Part 15 Subpart B Class A, EN 62040-2 C2:2010, EN 55024:2010 Separate options Vertical stands Vertical stands STAND2UA00	Operating er	nvironment			Ambient temperature: -10 to +55° C ^{,®} relative humidity: 20 to 90% (non-condensing)				
Safety standard UL 1778 5th edition (E226092), CSA C22.2 No. 107.3-14 (3rd edition), CE marking (EN 62040-1:2008/A1:2013) EMC standard VCCI 32-1 Class A FCC Part 15 Subpart B Class A, EN 62040-2 C2:2010, EN 55022:2010 Class A, EN 62040-2:2006, EN 55024:2010 Separate options Vertical stands Vertical stands STAND2UA00	Storage envi	ironment ⁽⁹⁾			Ambient temperature: -15 to +60° C; relative humidity: 20 to 90% (non-condensing)				
EMC standard VCCI 32-1 Class A FCC Part 15 Subpart B Class A, EN 62040-2 C2:2010, EN 55022:2010 Class A, EN 62040-2:2006, EN 55024:2010 Separate options Vertical stands Vertical stands STAND2UA00	Safety stand	ard			UL 1778 5th edition (E226092), CSA C22.2 No. 107.3-14 (3rd edition), CE marking (EN 62040-1:2008/A1:2013)				
Separate options Vertical stands STAND2UA00	EMC standard				VCCI 32-1 Class A FCC Part 15 Subpart B Class A, EN 62040-2 C2:2010, EN 55022:2010 Class A, EN 62040-2:2006, EN 55024:2010				
Vertical stands STAND2UA00	Separate op	tions							
	Vertical stan	ıds			STAND2UA00				
Floor mounting prackets	Floor mounti	ng brackets			FM2UA00				
Rack support rails ⁽¹⁰⁾ RM030-US (21)	Rack support rails ⁽¹⁰⁾				RM030-US (2U)				
Air filter ⁽ⁱⁱ⁾ FL011	Air filter ⁽¹¹⁾				FL011				

(1) When the UPS transfers from Economy mode to battery operation, there will be an interruption of approximately 8 ms. In the event of an abrupt input voltage or frequency change while in Economy mode, the UPS might transfer

8 ms. In the event of an abrupt input voltage or frequency change while in Economy mode, the UPS might transfer to battery operation. For use without interruption, fix the operation mode to Double Conversion mode. (2) When grounding, connect the grounded phase of the AC input power to the UPS's W (N) input terminal (S-phase).

(3) The inverter synchronizes with AC input and allows an uninterrupted transfer to bypass provided that the AC input frequency is within a range of the rated frequency ±3% (1, 3, or 5% selectable).

(4) Max. capacity during battery recovery charging

(5) At 25°C ambient temperature and load power factor of 0.8, using new, fully charged batteries.

(6) At an operating temperature of 30°C.

(7) Use of USB interface requires driver installation.

(8) When the ambient temperature exceeds 40°C, battery charging will stop and a Device Error (minor malfunction) alarm will be generated.

(9) Avoid use or storage in +30°C or higher temperatures for extended periods of time, or the battery's life will be shortened. When a UPS is stored without being operated for a long period, the batteries require recharging once every six months.

(10) Used for mounting the UPS on a standard 19-inch rack.

(11) A front side air intake filter for preventing dust ingress.



200	v model UL	L/CE certified	models					
Model no.				E11BL102A002AUJ	E11BL102A012AUJ	E11BL202A002AUJ	E11BL202A012AUJ	
UL-registere	d no.		•	E11BL102U002J	E11BL102U012J	E11BL202U002J	E11BL202U012J	
Rated output	capacity (apparent pow	ver / active po	wer)	1.0 kVA / 0.8 kW	1	2.0 kVA / 1.6 kW		
	Topology			Hybrid ⁽¹⁾				
Technology	Cooling method	Cooling method			Forced air cooling			
	No. of phases/wires			Single-phase 2-wire ⁽²⁾				
	Rated voltage (Same as	s output)		200/208/220/230/240 V				
				At load level < 40%: 110 to 300 V				
	Valtago rongo	In Double Co	nversion mode	At load level < 70%: 136 to 288 V At load level < 70%: 136 to 280 V				
	voitage range			At load level ≥ 70%: 160 to 288 V At load level ≥ 70%: 160 to 280 V				
		In Economy	mode	Within $\pm 8\%$ of rated voltage				
AC input	Rated frequency			50/60 Hz (auto-sensing)				
		In Double Co	nversion mode fixed setting	Within ±1% of rated fre	equency (Synchronization ra	inge)		
	Frequency range ⁽³⁾	In automatic transfer setting		40 to 120 Hz (Asynchronous operation range)				
	rioquonoy rungo			Within \pm 1, 3, or 5% of rated frequency (Factory setting is \pm 3%; synchronization range)				
	(4)			40 to 120 Hz (Asynchronous operation range)				
	Required capacity ⁽⁴⁾			1.1 kVA or less 2.2 kVA or less				
	Input power factor			0.95 or greater				
	No. of phases/wires			Single-phase 2-wire				
	Rated voltage (Changea	able with setti	ngs)	200/208/220/230/240 V (Factory setting: 200 V)			
	Voltage regulation	In Double Co	nversion mode	Within ±2% of rated vo	Within $\pm 2\%$ of rated voltage			
		In Economy	mode	Within -10 to +8% of rat	ted voltage			
	Rated frequency (same	as input)		50/60 Hz				
		In grid	In Double Conversion mode	Within ±1% of rated fre	equency			
	Frequency regulation	operation	In automatic transfor cotting	Within +1 2 or E% of roted from only (Eastery cotting: +2%)				
		In hattery on	aration	Within ±0.5% of rated	frequency (Including during	asynchronous operation)		
AC output	Voltago barmonic disto	th battery operation		2% or loss				
	(At rated output)		At rectifier load	8% or less	8% or less			
	Load nower factor	Bated		0.8 langing (Variation ra	ange: 0.7 Jagging to 1.0)			
		For abrupt lo	ad change	Within ±5% of rated voltage (For 0⇔100% load step changes at rated input)				
	Transient voltage	For loss or return of input power		Within ±5% of rated vo	oltage (At rated output)	· · · · · · · · · · · · · · · · · · ·		
	fluctuation For abrupt		put voltage change	Within ±5% of rated vo	oltage (For ±10% abrupt cha	nge)		
	Overcurrent protection			Automatic transfer to b	ypass (With automatic retra	nsfer function)		
	Overland enclaite	Inverter	In Double Conversion mode	105% (for 200 ms)				
	Overload capability Bypass			200% (for 30 s), 800% (f	or 2 cycles)	-		
	Туре			Lithium-ion battery				
	Battery backup time ⁽⁵⁾			4 min				
Battery	Expected life (6)			Approx. 10 years				
	Battery capacit			40 Ah·cell		80 Ah-cell		
	Battery self-test			Can be enabled (Factory setting: "disabled")				
	PC port			RS-232C, USB Type B ⁽⁷⁾ (Cannot be used at the same time)				
Interface	Remote port			Remote ON/OFF				
	Dry contact			Optional dry contact interface card is required				
	Network support			Optional LAN interface	card is required			
Acoustic noi	se (In Double Conversion	n mode)		51 dB		55 dB		
Heat dissipa	tion	output offer	hottom charging completed	130 W		260 W		
In Double C	onversion mode at rated	output, atter	ous operation)	2 mA or loco		2.5 mA or loss		
Operating or	e current (including duri	ng asynciiron		Ambient temperature:	10 to + 55° C ^{.(8)} relative burnid	10.0 IIIA UI IESS	ing)	
Storage onvi	ronment ⁽⁹⁾			Ambient temperature: -10 to +55 C; relative humidity: 20 to 90% (non-condensing)				
Safety stand	ard			Hill 1778 5th edition (E226092) CSA C22 2 No. 107 3-14 (3rd edition) CE marking (EN 620/0-1-2009/A1-2013)				
EMC standard				VCCI 32-1 Class A FCC Part 15 Subpart B Class A, EN 62040-2 C2:2010,				
				EN 55022:2010 Class A,	EN 62040-2:2006, EN 55024:2	010		
Separate op	tions			1.				
Vertical stan	Vertical stands				STAND2UA00			
Floor mounting brackets				FM2UA00				
Kack suppor	t rails"			KIM030-US (2U)				
Air filter ⁽¹¹⁾				FL011				

Air filter FL011 (1) When the UPS transfers from Economy mode to battery operation, there will be an interruption of approximately 8 ms. In the event of an abrupt input voltage or frequency change while in Economy mode, the UPS might transfer

to battery operation. For use without interruption, fix the operation mode to Double Conversion mode.

(7) Use of USB interface requires driver installation.

(8) When the ambient temperature exceeds 40°C, battery charging will stop and a Device Error (minor malfunction) alarm will be generated.

 When grounding, connect the grounded phase of the AC input power to the UPS's W (N) input terminal (S-phase).
 The inverter synchronizes with AC input and allows an uninterrupted transfer to bypass provided that the AC input and allows an uninterrupted transfer to bypass provided that the AC input and allows an uninterrupted transfer to bypass provided that the AC input and allows an uninterrupted transfer to bypass provided that the AC input and allows an uninterrupted transfer to bypass provided that the AC input and allows an uninterrupted transfer to bypass provided that the AC input and allows an uninterrupted transfer to bypass provided that the AC input and allows an uninterrupted transfer to bypass provided that the AC input and allows and the AC input and allows and the AC input and allows an uninterrupted transfer to bypass provided that the AC input and allows an uninterrupted transfer to bypass provided that the AC input and allows an uninterrupted transfer to bypass provided that the AC input and allows an uninterrupted transfer to bypass provided that the AC input and allows an uninterrupted transfer to bypass provided that the AC input and allows an uninterrupted transfer to bypass provided that the AC input and allows an uninterrupted transfer to bypass provided that the AC input and allows an uninterrupted transfer to bypass provided that the AC input and allows an uninterrupted transfer to bypass provided that the AC input and allows an uninterrupted transfer to bypass provided that the AC input and allows an uninterrupted transfer to bypass provided that the AC input and allows an uninterrupted transfer to bypass provided that the AC input and allows an uninterrupted transfer to bypass provided that the AC input and allows an uninterrupted transfer to bypass provided that the AC input and allows an uninterrupted transfer to bypass provided that the AC input and allows an uninterrupted transfer to bypass provided that the AC input and allows an uninterrupted transfer t frequency is within a range of the rated frequency $\pm 3\%$ (1, 3, or 5% selectable).

(4) Max. capacity during battery recovery charging

(5) At 25°C ambient temperature and load power factor of 0.8, using new, fully charged batteries. (6) At an operating temperature of 30°C.

(9) Avoid use or storage in +30°C or higher temperatures for extended periods of time, or the battery's life will be

shortened. When a UPS is stored without being operated for a long period, the batteries require recharging once every six months.

(10) Used for mounting the UPS on a standard 19-inch rack.

(11) A front side air intake filter for preventing dust ingress.



Hybrid UPS SANUPS E11B-Li



Note: Reference value at 25°C ambient temperature and load power factor of 0.8, using new, fully charged batteries.

Network Options

Item	Model no.		Remarks			
LAN Interface Card	IPv4/IPv6, Modbus TCP supported	PRLANIF022A	When installed in the optional card slot, this card enables 24/7 monitoring of UPS operations and			
	IPv4/IPv6, Modbus TCP/RTU supported	PRLANIF024A	status, and sends email notifications to system administrators for quick actions via network in th event of a power failure.			
	IPv4/IPv6, environmental monitoring supported	PRLANIF013B-US	Combined with our temperature sensor (PRLANSN001) and humidity sensor (PRLANSN002), this model enables monitoring of UPS ambient temperature and humidity.			
Dry Contact Interface Card	Terminal block output	PRCONIF007	This card outputs no-voltage contact signals to notify UPS status.			
	D-sub output connector	PRCONIF008	A and B contacts can be selected for each signal.			
SANUPS SOFTWARE	for Windows	PMS52 00DL ⁽²⁾	This is an installation-based UPS management software.			
Download version			For the latest OS support information, refer to our website.			
	for Multi-OS ⁽¹⁾	PMS53_00DL ⁽²⁾	-suffix to the model number as on the right50 (50 lice -100 (100 lice) -50 (50 lice			

(1) Supports Windows, Unix, and Linux.

(2) The \square 's denote revision characters.

Note: Optional products have different operating temperature ranges from the UPS.

Dimensions of Options (Unit: mm)

Vertical Stands

STAND2UA00



Rack Support Rails

Used for mounting the UPS on a standard 19-inch rack.

Rack mounting brackets for securing a UPS in a rack come included or installed. A pair of left and right rails. Shown is the left rail.



