SANYO DENKI

SANUPS N11D

Standby UPS Lead-acid battery model

Ver.1
English

ECO PRODUCTS PLUS

SANUPS N11D

Slim Design with 200% Overload Capacity

UPS unit
3-year warranty


Floor-standing type A


Floor-standing type B


Wall-mounted

200% Overload Capacity—Twice the Rated Capacity

- Delivers 200%(1) overload capacity, even during battery operation. Ideal for equipment with large power fluctuations, such as elevators, robots, and motor-driven machinery.

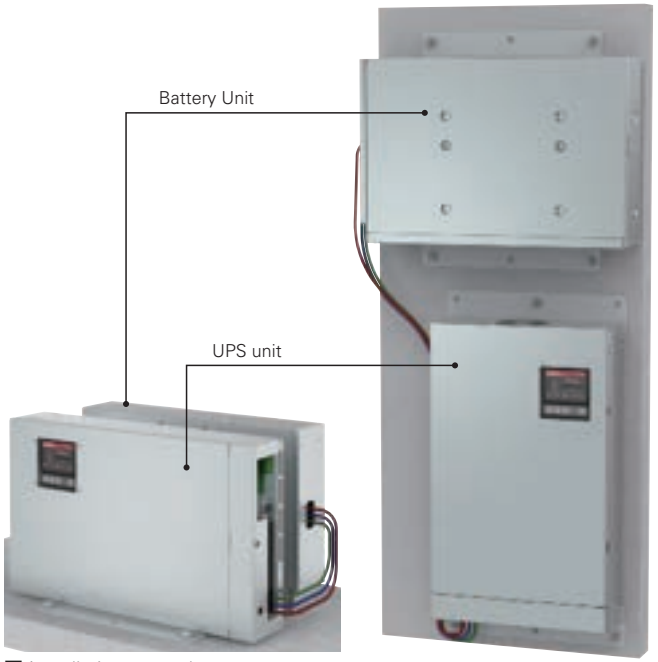
High Efficiency, Energy Savings, and Low Noise

- Achieves power conversion efficiency of up to 98.6%,(2) reducing power consumption and CO_2 emissions while supporting the achievement of the SDGs.
- Low operating noise of approximately 30 dB(3) supports installation in noise-sensitive environments.

Flexible Product Lineup

- Slim design supports wall mounting, enabling installation in control panels and other equipment. Two floor-standing installation options are also available to suit various installation conditions.
- The battery unit can be installed separately from the UPS unit, providing greater flexibility for a wide range of applications and installation layouts.

(1) For 1 s
(2) In a 3 kVA configuration
(3) In normal operation at rated load level



■ Installation examples
This UPS consists of a UPS unit and a battery unit.
Battery units are available in different capacities and sizes depending on the required backup time. The order no. indicates the combination of UPS unit and battery unit(s).

Lineup

[No. of phases/wires] Input/Output voltage	Output capacity [kVA]	Output capacity [kW]	Battery backup time*	Installation	LED panel	Order no.	Page: Specifications	Page: Dimensions
[Single-phase 2-wire] 200 V model 200/208/220/230 V	2	1.6	5 min	Wall-mounted	Front	**S-N11D202AWT6**	p. 4	p. 5
				Floor-standing type A	Front	**S-N11D202AFT6**	p. 4	p. 6
				Floor-standing type B	Side	**S-N11D202AFS6**	p. 4	p. 6
			9 min	Wall-mounted	Front	**S-N11D202AWT8**	p. 4	p. 5
				Floor-standing type A	Front	**S-N11D202AFT8**	p. 4	p. 6
				Floor-standing type B	Side	**S-N11D202AFS8**	p. 4	p. 6
	3	2.4	5 min	Wall-mounted	Front	**S-N11D302AWT8**	p. 4	p. 5
				Floor-standing type A	Front	**S-N11D302AFT8**	p. 4	p. 6
				Floor-standing type B	Side	**S-N11D302AFS8**	p. 4	p. 6

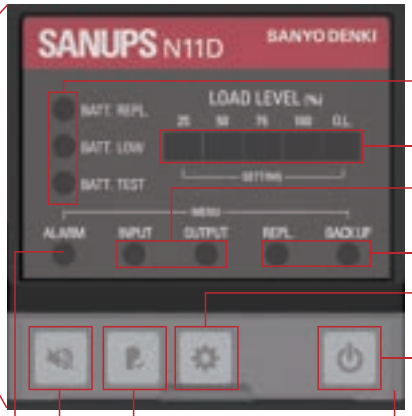
Note: At a 25°C ambient temperature and load power factor of 0.8, using new, fully charged batteries.

Views and Part Names

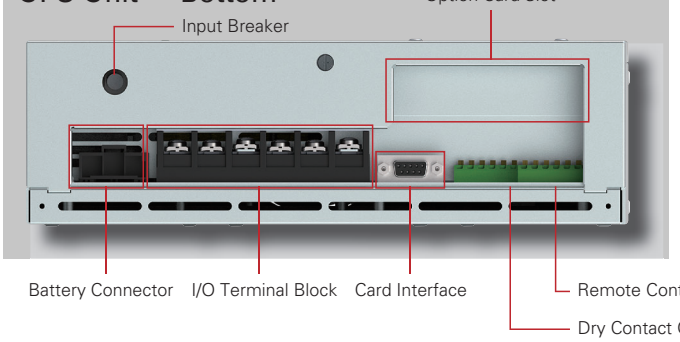
Note: The illustration shows the wall-mounted configuration. Details may vary depending on the installation method.

UPS Unit — Front

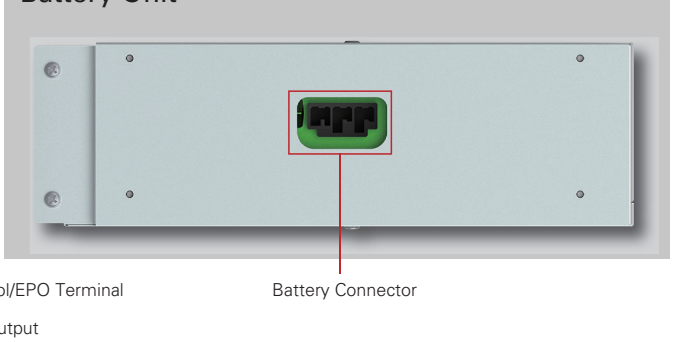
LED Panel



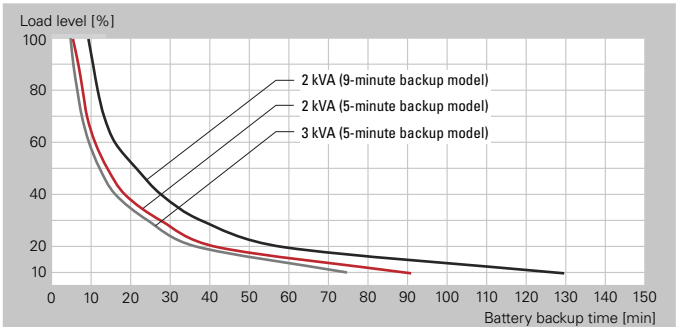
UPS Unit — Bottom



Battery Unit



Load Level vs Backup Time



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

Choose the optimal model to match your application and maintenance needs

Lithium-ion battery model

Installation
Wall-mounted
Floor-standing type A
Floor-standing type B

Battery backup time		
Output capacity [kVA]	2	3
Backup time [min]	9	8

EDLC model

Installation
Wall-mounted
Floor-standing type A
Floor-standing type B
Rack-mounted

Battery backup time		
Output capacity [kVA]	2	3
Backup time [min]	2.8	1.5

Specifications

Model No.				S-N11D202A□□6	S-N11D202A□□8	S-N11D302A□□8
Rated output capacity (apparent power / active power)				2.0 kVA / 1.6 kW		3.0 kVA / 2.4 kW
Technology		Topology		Standby		
		Cooling method		Forced air cooling		
		Inverter type		High-frequency PWM		
AC input	No. of phases/wires			Single-phase 2-wire		
	Rated voltage			200/208/220/230 V (Same as output voltage)		
	Voltage range			Rated voltage: -15% to +10% / -8% to +8% (Factory setting: -15% to +10%)		
	Frequency			50/60 Hz (auto-detection)		
	Frequency range			±3/5/7% of rated frequency (Factory setting: 5%)		
	Required capacity[1]			2.2 kVA or less		3.3 kVA or less
AC output	No. of phases/wires			Single-phase 2-wire		
	Rated voltage			200/208/220/230 V (Factory setting: 200 V)		
	Rated current			10 A		15 A
	Transfer time			10 ms or less		
	Voltage regulation	In normal operation		Within +0 V / -4 V of input voltage		
		In battery operation		Within ±3% of rated voltage		
	Rated frequency			50/60 Hz (Same as input frequency)		
	Frequency regulation	In normal operation		Same as input		
		In battery operation		Within ±0.5% of rated frequency (at rated output)		
	Output waveform	During normal operation		Same as input		
		In battery operation		Sinusoidal		
	Voltage harmonic distortion		At linear load	5% or less (During battery operation at rated output)		
			At rectifier load	10% or less (During battery operation at rated output)		
	Load power factor	Rated		0.8 lagging (Variation range: 0.7 lagging to 1.0)		
	Transient voltage fluctuation	For abrupt load change		Within ±10% of rated voltage (During battery operation, for 0⇔100% load step changes)		
	Overcurrent protection			Breaker trip		
	Overload capability	In normal operation		150% (for 60 s), 200% (for 30 s), 800% (for 2 cycles)		
		In battery operation		150% (for 60 s), 180% (for 10 s), 200% (for 1 s)		
Battery	Type			Small-sized valve-regulated lead-acid (VRLA) battery		
	Backup time[2]			5 min	9 min	5 min
	Battery test			Selectable (Factory setting: every 180 days)		
	Expected life			Approximately 5 years (At a 25°C ambient temperature. For reference purposes only.)		
Interface		Dry contact input		EPO / Remote ON / Remote OFF		
		Dry contact output[3]		System fault / AC output / low battery voltage (battery replacement warning) / AC input fault		
		Network support		Option LAN interface card is required		
Acoustic noise (1 m from front of UPS, A-weighted)		In normal operation		40 dB or less		
		In battery operation		60 dB or less		
Heat dissipation (At rated operation, after battery charging completed)				41 W		61 W
Input leakage current				3.5 mA or less		
Operating environment				Ambient temperature: 0 to +40°C, humidity: 20 to 90% RH (non-condensing)		
Storage environment[4]				Ambient temperature: -15 to +50°C, humidity: 20 to 90% RH (non-condensing)		
Expected service life				10 years (At a 30°C average ambient temperature. For reference purposes only.) Battery excluded.		
EMC standard				VCCI32-1 Class A		
Separate options						
Air filter kit[5]				FL012		
Unit-to-unit cable (400 mm)				CAN11DBATT001 (for BCN11D6SA), CAN11DBATT002 (for BCN11D8SA)		

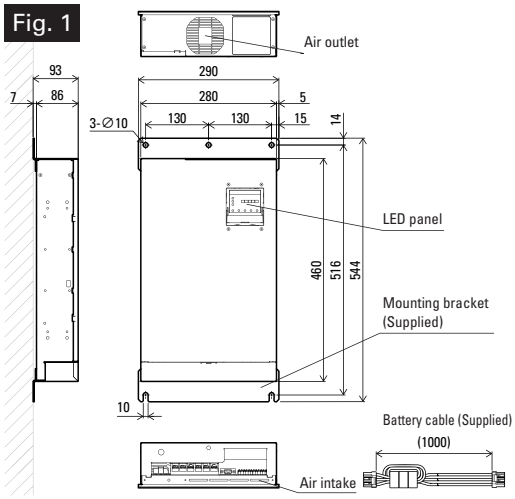
(1) Maximum capacity during battery recharge.
(2) At 25°C ambient temperature and rated output, using new, fully charged batteries
(3) Form C dry-contact relay output.
(4) Avoid use or storage in 30°C or higher temperatures for extended periods of time, as this will shorten battery life. If the UPS is stored for an extended period, recharge the batteries once a year.
(5) Filter installed over the UPS unit air intake to help prevent dust ingress.

Dimensions [Unit: mm]

Wall-mounted

Order no. (A set of a UPS unit and battery unit(s))		S-N11D202AWT6	S-N11D202AWT8	S-N11D302AWT8
Rated output capacity (apparent power / active power)		2.0 kVA / 1.6 kW		3.0 kVA / 2.4 kW
Battery backup time		5 min	9 min	5 min
Battery	Quantity	6	8	8
	Total capacity [Wh]	450	600	600
Dimensions	UPS unit	Fig. 1		
	Battery unit	Fig. 2	Fig. 3	
Mass	UPS unit	11 kg		
	Battery unit	17 kg	21 kg	
Replacement battery pack				
Battery pack order no.		S-BPN11D6SA	S-BPN11D8SA	

Fig. 1



Installation clearance:
Top: 10 cm min.; Bottom: 10 cm min.
Maintenance clearance:
Front: 1 m min.; Top: 50 cm min.; Bottom: 50 cm min.

Fig. 2 Model: BCN11D6SA

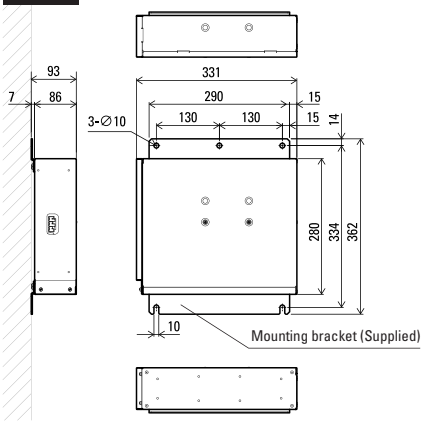
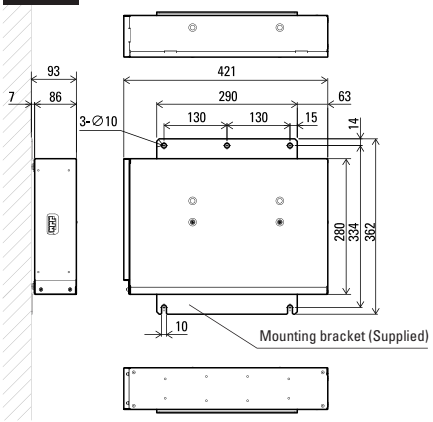


Fig. 3 Model: BCN11D8SA



Material: Uncoated ZAM steel sheet

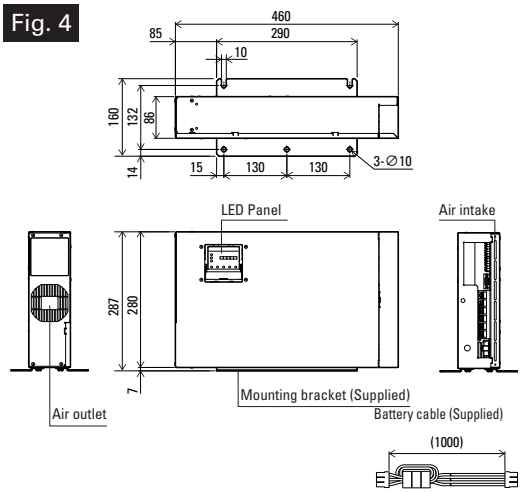
Maintenance clearance:
Front: 50 cm min.; Left side: 50 cm min.

Dimensions [Unit: mm]

Floor-standing type A

Order no. (A set of a UPS unit and battery unit(s))		S-N11D202AFT6	S-N11D202AFT8	S-N11D302AFT8
Rated output capacity (apparent power / active power)		2.0 kVA / 1.6 kW		3.0 kVA / 2.4 kW
Battery backup time		5 min	9 min	5 min
Battery	Quantity	6	8	8
	Total capacity [Wh]	450	600	600
Dimensions	UPS unit	Fig. 4		
	Battery unit	Fig. 6	Fig. 7	
Mass	UPS unit	11 kg		
	Battery unit	17 kg	21 kg	
Replacement battery pack				
Battery pack order no.		S-BPN11D6SA	S-BPN11D8SA	

Fig. 4

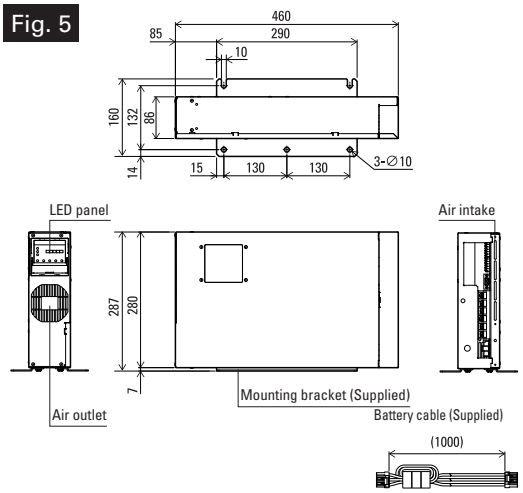


Installation clearance:
Left side: 10 cm min.; Right side: 10 cm min.
Maintenance clearance:
Front: 1 m min.; Left side: 50 cm min.; Right side: 50 cm min.

Floor-standing type B

Order no. (A set of a UPS unit and battery unit(s))		S-N11D202AFS6	S-N11D202AFS8	S-N11D302AFS8
Rated output capacity (apparent power / active power)		2.0 kVA / 1.6 kW		3.0 kVA / 2.4 kW
Battery backup time		5 min	9 min	5 min
Battery	Quantity	6	8	8
	Total capacity [Wh]	450	600	600
Dimensions	UPS unit	Fig. 5		
	Battery unit	Fig. 6	Fig. 7	
Mass	UPS unit	11 kg		
	Battery unit	17 kg	21 kg	
Replacement battery pack				
Battery pack order no.		S-BPN11D6SA	S-BPN11D8SA	

Fig. 5



installation clearance:
Front: 10 cm min.; Rear: 10 cm min.
Maintenance clearance:
Front: 50 cm min.; Right side: 1 m min.; Rear: 50 cm min.

Fig. 6 Model: BCN11D6SA

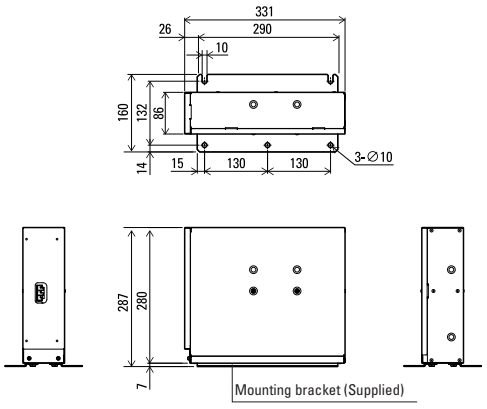
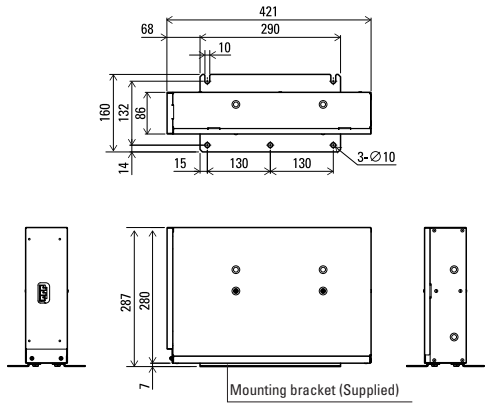


Fig. 7 Model: BCN11D8SA



Maintenance clearance:
Front: 50 cm min.; Left side: 50 cm min.

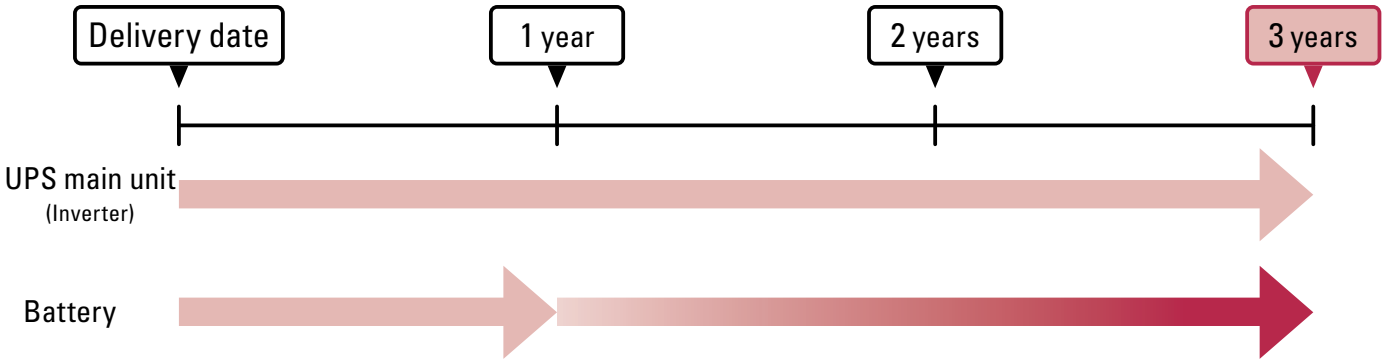
Material: Uncoated ZAM steel sheet

Network Options

Item	Model no.	Description
LAN interface card	**PRLANIF031**	When installed in the option card slot of a UPS, this card enables 24/7 monitoring of UPS operations and status, and sends email notifications to system administrators for quick actions via network in the event of a power failure. Combined with a temperature and humidity sensor (Model no.: 9CT1-T, extension cable: CARD-CBL007), this card can also monitor the ambient temperature and humidity. Multiple servers (up to 50) can be shut down through communication protocols such as SSH, Telnet, and REST API.

UPS warranty period

For warranty details, see the Warranty Card included with your UPS.



Battery warranty period is one year. It can be extended to three years by registering the UPS.

Note: This benefit is limited to users in Japan. Also, the battery replacement warranty does not cover a battery box or battery panel.
See the Instruction Manual for replacing the battery box and battery panel.

Complete registration on our website:

https://www.sanyodenki.com/

ECO PRODUCTS

■ Eco Products

Eco Products are eco-friendly products designed to reduce the environmental impact of the product and its packaging materials compared to conventional products on the market.
Our products are assessed over the product's life cycle against our own eco-design requirements including product size, weight, power consumption, and CO_2 emissions, and those meeting our standards and higher standards qualify as Eco Products and Eco Products Plus, respectively.

● Fire Service Law and Fire Prevention Ordinance in Japan
- When installing battery storage systems (including lithium-ion batteries), applicable local fire prevention regulations apply. Systems exceeding 20 kWh require notification to the local fire department.(If multiple systems are installed in the same room, total capacity is calculated as the sum of all systems.)For details, contact your local fire department.
- Products designed for use in Japan may not be suitable for use overseas due to differences in voltage and operating conditions, which may result in smoke or fire. Consult us before use outside Japan.Note that the UPSs cannot be used as an emergency power supply for firefighting equipment.

● Building Standard Law in Japan
The UPSs cannot be used as backup power for building facilities conforming to the disaster management requirements defined in the Building Standard Law.

Notes before Purchase

- Before installing, assembling, and using the products, please read Instruction Manual carefully and use them properly.
- Consult us when using the motor for the following uses, as these require special considerations for installation, operations, maintenance, and management such as redundancy and emergency power generators.
  (a) Medical equipment that may have direct effects on human life or human body.
  (b) Trains, elevators, and other machinery that can cause injury.
  (c) Socially and publicly important computer systems.
  (d) Other equipment that is related to safety of human life and that can have major impact on maintenance of public functions.
- For use in an environment where vibration is present, such as in a car or a ship, please consult with us in advance.
- Refrain from modifying or processing the product in any way.
- For installation and maintenance work of the products, please consult with us or properly licensed personnel.
- Please contact us concerning the disposal of used storage batteries supplied by SANYO DENKI.
- The products listed in this catalog fall into the category 16 of Appended Table 1 of the Export Trade Control Order. To export the products as an individual part or to export a device into which the products are assembled, the "Inform Requirements" and "Objective Requirements" that the Ministry of Economy, Trade and Industry of Japan established based on the "Catch-all Controls" must be studied for applicability. Accordingly, appropriate export formalities must be performed.
- SANYO DENKI will not be liable for any direct or indirect damages or loss, including but not limited to equipment downtime, missed power sales revenue, business interruptions, increased power purchases, resulting from the use of or inability to use our products or services.
- Products containing lithium-ion batteries may be restricted from air transport. When transporting by sea, transportation must be carried out according to the International Maritime Dangerous Goods (IMDG) Code. Also, some countries and regions have their own regulations, so please consult with the shipping company in advance.

For any inquiry or consultation, please contact a SANYO DENKI sales representative.
The Instruction Manual and Technical Manual are available for download from our website.
https://products.sanyodenki.com/en/sanups-manuals/

Contact your point of purchase for product handling, repair, and battery replacement support.

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