

SANUPS N11D-Li

Standby UPS Lithium-ion battery model

Ver. 1
English



SANUPS N11D-Li

Slim Design with 200% Overload Capacity
With Lithium-Ion Battery

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 CO₂ emissions while supporting the achievement of the SDGs.
- Low operating noise of approximately 30 dB⁽³⁾ supports installation in noise-sensitive environments.

Long Life

- The UPS uses lithium-ion batteries. It can operate for 10 years without battery replacement,⁽⁴⁾ reducing the maintenance work and costs.

Wide Operating Temperature Range

- The UPS operates over a wide temperature range of 0 to +55°C, providing greater installation flexibility in environments with large temperature variations.

(1) For 1 s

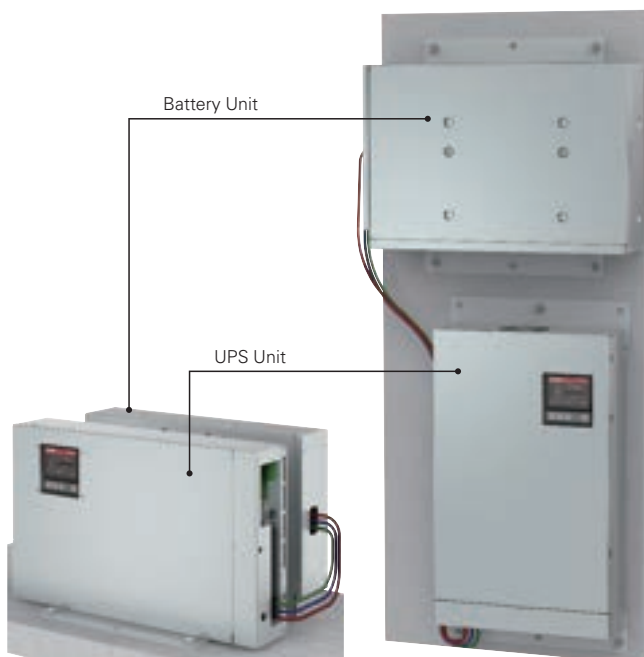
(2) In a 3 kVA configuration

(3) In normal operation at rated load level

(4) At a 25°C ambient temperature

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.



■ 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).

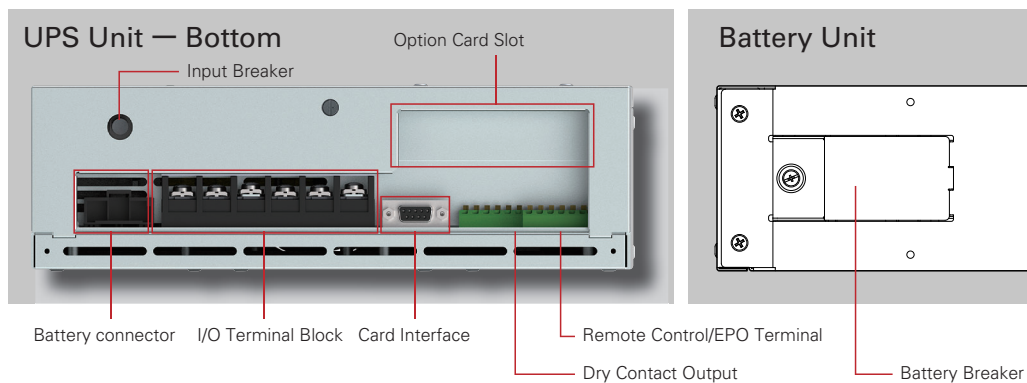
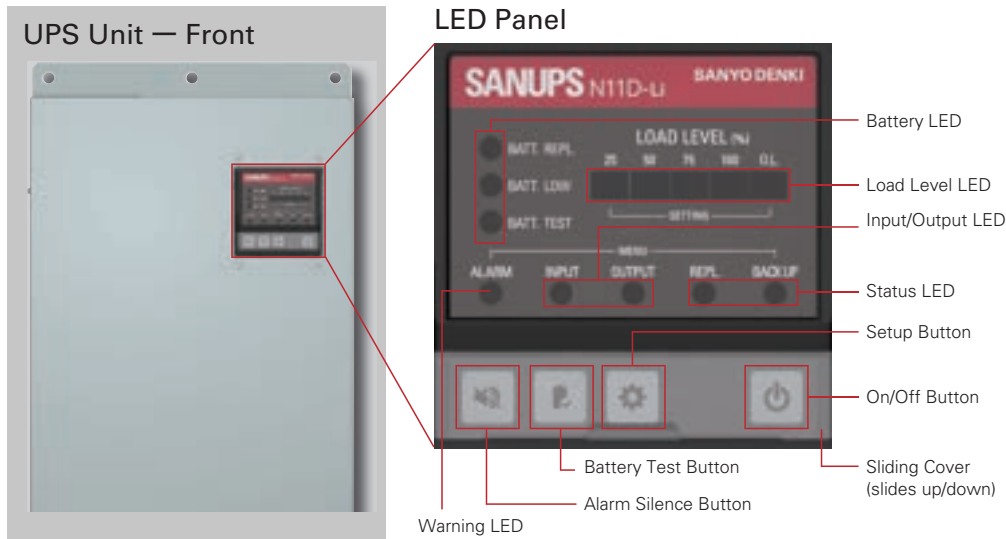
Lineup

[No. of phases/wires] Input/Output voltage	Output capacity		Battery backup time*	Installation	LED Panel	Order no.	Page	
	[kVA]	[kW]					Specifications	Dimensions
[Single-phase 2-wire] 200 V model 200/208/220/230 V	2	1.6	9 min	Wall-mounted	Front	S-N11DL202AWT	p. 4	p. 5
				Floor-standing type A	Front	S-N11DL202AFT	p. 4	p. 6
				Floor-standing type B	Side	S-N11DL202AFS	p. 4	p. 6
	3	2.4	8 min	Wall-mounted	Front	S-N11DL302AWT	p. 4	p. 5
				Floor-standing type A	Front	S-N11DL302AFT	p. 4	p. 6
				Floor-standing type B	Side	S-N11DL302AFS	p. 4	p. 6

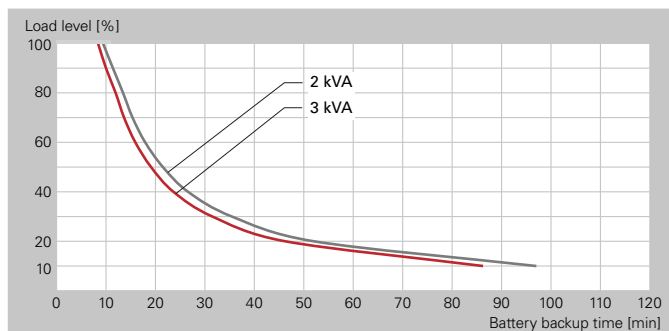
Note: At a 25°C ambient temperature and load power factor of 0.8, using new, fully charged batteries.

Views and Part Names

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



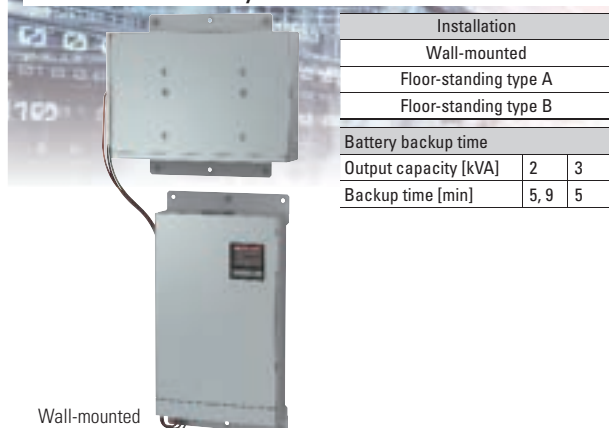
Load Level vs Backup Time



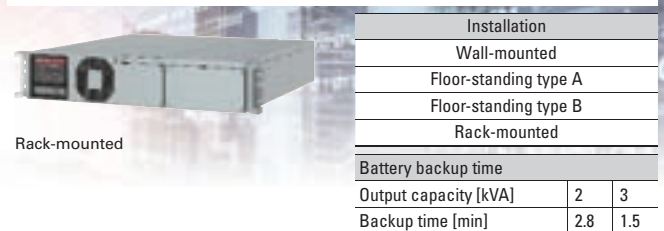
Note: Reference value at 25°C ambient temperature and load power factor of 0.8, using new, fully charged batteries.

Choose the optimal model to match your application and maintenance needs

Lead-acid battery model



EDLC model



Specifications

Model No.			S-N11DL202A□□	S-N11DL302A□□
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%)	
AC output	Required capacity ⁽¹⁾		2.7 kVA or less	3.7 kVA or less
	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 backup operation	Within ±3% of rated voltage	
	Rated frequency		50/60 Hz (Same as input frequency)	
	Frequency regulation	In normal operation	Same as input	
		In backup operation	Within ±0.5% of rated frequency	
	Output waveform	During normal operation	Same as input	
		In backup operation	Sinusoidal	
	Voltage harmonic distortion	At linear load	5% or less (During backup operation at rated output)	
		At rectifier load	10% or less (During backup 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 backup operation	150% (for 60 s), 180% (for 10 s), 200% (for 1 s)		
Battery	Type		Lithium-ion battery	
	Backup time ⁽²⁾		9 min	8 min
	Battery test		Selectable (Factory setting: every 180 days)	
	Expected life		Approximately 10 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 backup 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 ⁽⁴⁾		Ambient temperature: 0 to +55°C, humidity: 20 to 90% RH (non-condensing)		
Storage environment ⁽⁵⁾		Ambient temperature: -15 to +60°C, humidity: 20 to 90% RH (non-condensing)		
Expected service life		10 years (At a 30°C average ambient temperature. For reference purposes only.)		
EMC standard		VCCI32-1 Class A		
Separate options				
Air filter kit ⁽⁶⁾		FL012		
Unit-to-unit cable (400 mm)		CAN11DBATT001 (for BCN11DL6SA)		CAN11DBATT002 (for BCN11DL8SA)

(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) Battery charging will stop when ambient temperature exceeds 55°C. When exceeding 40°C, a 5% load reduction from the rated capacity is required for each 1°C increase.

(5) 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.

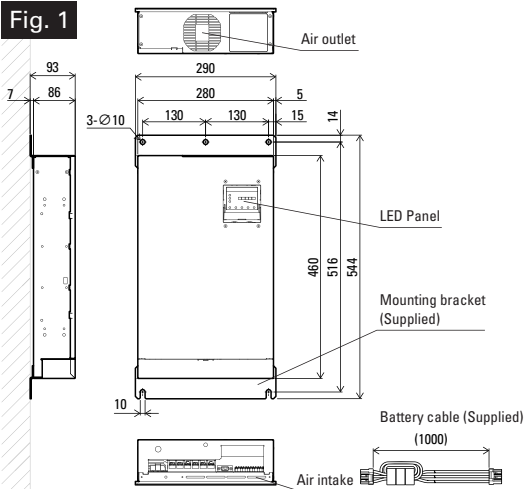
(6) Filter installed over the UPS unit air intake to help prevent dust ingress

Dimensions [Unit: mm]

Wall-mounted

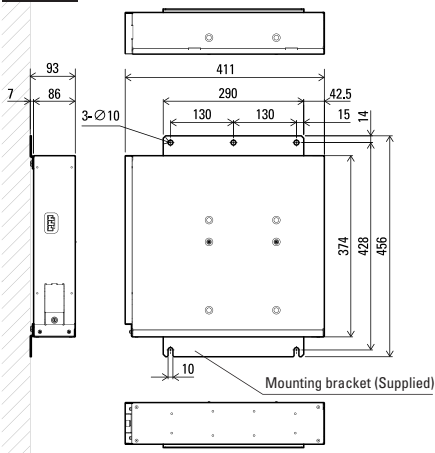
Order no. (A set of a UPS unit and battery unit(s))	S-N11DL202AWT	S-N11DL302AWT
Rated output capacity (apparent power / active power)	2.0 kVA / 1.6 kW	3.0 kVA / 2.4 kW
Battery backup time	9 min	8 min
Battery capacity	Quantity	Quantity
	6	8
	Total capacity [Wh]	Total capacity [Wh]
	396	528
Dimensions	UPS unit	Fig. 1
	Battery unit	Fig. 2
Mass	UPS unit	11 kg
	Battery unit	13 kg
Replacement battery pack		
Battery pack order no.	S-BPN11DL6SA	S-BPN11DL8SA

Fig. 1



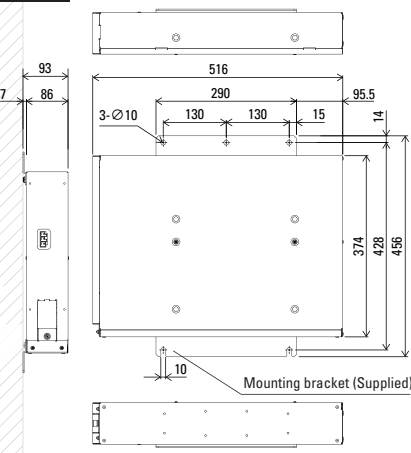
Installation clearance:
Top: 10 cm min.; Bottom: 10 cm min.
Maintenance clearance:
Front: 1 m min.; Top: 50 cm min.; Bottom: 50 cm min.

Fig. 2 Model: BCN11DL6SA



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

Fig. 3 Model: BCN11DL8SA



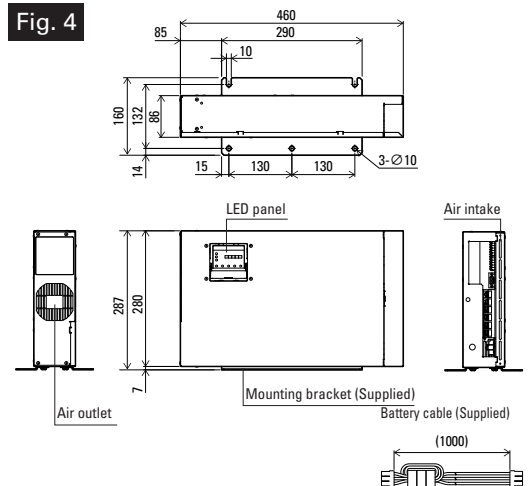
Material: Uncoated ZAM steel sheet

Dimensions [Unit: mm]

Floor-standing type A

Order no. (A set of a UPS unit and battery unit(s))		S-N11DL202AFT	S-N11DL302AFT
Rated output capacity (apparent power / active power)		2.0 kVA / 1.6 kW	3.0 kVA / 2.4 kW
Battery backup time		9 min	8 min
Battery capacity	Quantity	6	8
	Total capacity [Wh]	396	528
Dimensions	UPS unit	Fig. 4	
	Battery unit	Fig. 6	Fig. 7
Mass	UPS unit	11 kg	
	Battery unit	13 kg	15 kg
Replacement battery pack			
Battery pack order no.		S-BPN11DL6SA	S-BPN11DL8SA

Fig. 4

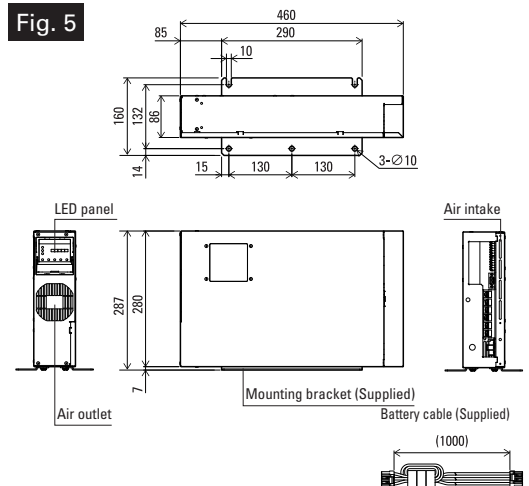


Installation clearance:
Left side: 10 cm min.; Right side: 10 cm min.
Maintenance clearance:
Front: 1 m min.; Left side: 50 cm min.; Right side: 50 cm min.

Floor-standing type B

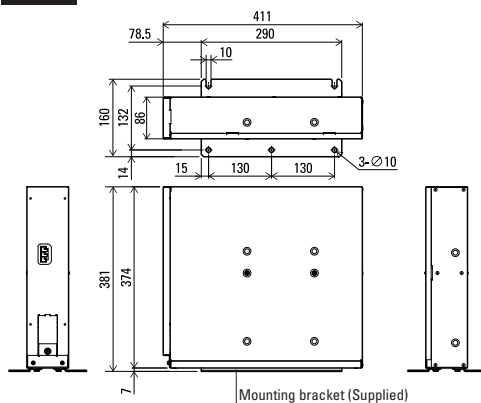
Order no. (A set of a UPS unit and battery unit(s))		S-N11DL202AFS	S-N11DL302AFS
Rated output capacity (apparent power / active power)		2.0 kVA / 1.6 kW	3.0 kVA / 2.4 kW
Battery backup time		9 min	8 min
Battery capacity	Quantity	6	8
	Total capacity [Wh]	396	528
Dimensions	UPS unit	Fig. 5	
	Battery unit	Fig. 6	Fig. 7
Mass	UPS unit	11 kg	
	Battery unit	13 kg	15 kg
Replacement battery pack			
Battery pack order no.		S-BPN11DL6SA	S-BPN11DL8SA

Fig. 5



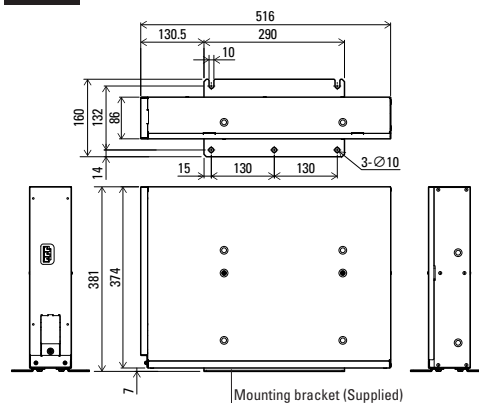
Installation clearance:
Front: 10 cm min.; Rear: 10 cm min.
Maintenance clearance:
Front: 50 cm min.; Right side: 1 m min.; Rear: 50 cm min.

Fig. 6 Model: BCN11DL6SA



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

Fig. 7 Model: BCN11DL8SA



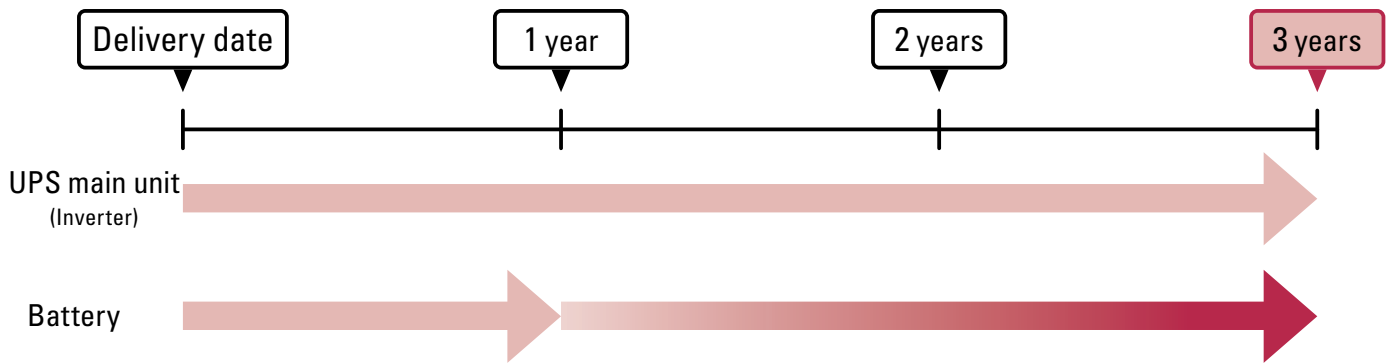
Material: Uncoated ZAM steel sheet

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 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 CO₂ 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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<https://www.sanyodenki.com/>

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