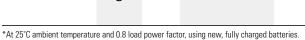
Online UPS

SANUPS A11K-Li

Double Conversion Online UPS with Lithium-ion Batteries

Lineup:

[No. of phases/wires]	Output capacity		Battery backup time*	I/O connector
Input/Output voltage	[kVA]	[kW]		
[Single-phase 2-wire]	1.5	1.2	19 min	Outlet
100 V model 100/110/120 V	3	2.4		Outlet / terminal block





Wide Operating Temperature Range

Achieves a wide operating temperature range of -20 to +55°C. This UPS can be used with confidence even in harsh cold or hot environments.

Space-Saving

The heights of the 1.5 kVA and 3 kVA models are 2U (86 mm) and 4U (175 mm), respectively.

They are smaller than the UPSs with lead-acid batteries, saving rack space.

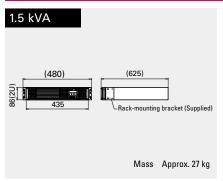
Long Service Life

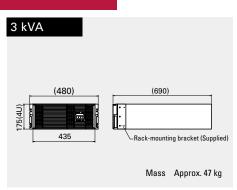
 This UPS uses lithium-ion batteries, and the expected battery life is approximately twice as long as our conventional UPS(1) that uses lead-acid batteries.

It can operate for 10 years without battery replacement, (2) reducing the maintenance work and costs.

- (1) Conventional UPS: A11K (with lead-acid batteries).
- (2) Assuming 10 power outages per year and 30°C ambient temperature.

Dimensions (Unit: mm)





Paint color: Black (Munsell N1.5)

Specifications

Model no.		S-A11KL152A0019SSN00	S-A11KL302A0019SSN00	S-A11KL302A0019SST00			
Rated output capacity (apparent power / active power)		1.5 kVA / 1.2 kW	3 kVA / 2.4 kW				
Topology		Grid synchronous double conversion online					
Technology	Rectifier		High-power factor converter				
	Cooling method		Forced air cooling				
	Inverter		High-frequency PWM				
AC input F	No. of phases/wires		Single-phase 2-wire ⁽¹⁾				
	Rated voltage		100/110/120 V (User-selectable, Factory setting: 100 V)				
	•		At load level < 70%: Within -40 to +20% of rated voltage (-40% becomes -20% for recovery voltage)				
	Voltage range		At load level ≥ 70%: Within ±20% of rated voltage				
	Rated frequency		50/60 Hz (auto-sensing ^(z))				
	Frequency range		Within ±1, 3, 5, or 7% of rated frequency (same as output frequency regulation)				
	Required capacity ⁽³⁾		1.5 kVA	3.0 kVA			
	Input power factor		0.95 or greater	0.97 or greater			
	No. of phases/wires		Single-phase 2-wire				
	Rated voltage		100/110/120 V (Same as AC input)				
	Rated current		15 A	30 A			
	Voltage regulation		Within ±2% of rated voltage (at rated outpu	t)			
	Rated frequency		50/60 Hz (Same as the input rated frequency)				
	During grid operation		Within ±1, 3, 5, or 7% of the rated frequency (User-selectable. Factory setting: ±3%)				
	Frequency regulation During battery operation		Within ±0.5% of rated frequency	,			
1	Output waveform		Pure sine wave				
	Voltage harmonic	At linear load	3% or less (At rated output)				
AC output	distortion	At rectifier load	7% or less (At rated output)				
·	Load power factor	Rated	0.8 lagging (Variation range: 0.7 lagging to 1.1	ח			
		For abrupt load change	Within ±5% of rated voltage (For 0⇔100%				
		For loss or return of					
	fluctuation	input power	Within $\pm 5\%$ of rated voltage (At rated output)				
		For abrupt input voltage					
		change	Within $\pm 5\%$ of rated voltage (For $\pm 10\%$ abrupt change)				
	Overcurrent protection		Automatic transfer to bypass (With automatic retransfer function)				
	0	Inverter	105% (for 200 ms)				
	Overload capability Bypass		200% (for 30 s), 800% (for 2 cycles)				
	Туре		Lithium-ion battery				
	Battery backup time ⁽⁴⁾ Initial value After 10 years ⁽⁵⁾		19 min				
D			16 min				
Battery	Battery capacity [Ah-cell]		180	360			
	Battery power consumption [Wh]		666	1332			
	Battery self-test		Settings possible (Factory setting: "disabled")				
Input plug		NEMA 5-15P	NEMA L5-30P	M5 terminal			
		NEMA 5 450 N. O	NEMA L5-30R × 1	M5 terminal			
Output outlet		NEMA 5-15R × 6	NEMA 5-15R $ imes$ 2 (15 A each)	NEMA 5-15R × 2 (15 A each)			
	PC port		RS-232C				
	Remote port		Remote ON/OFF switch (can control up to 5 UPS units in Linked Operation using a dedicated cable.)				
Interface	Communication termin	nal	Failure/Outage				
	Dry contact		Optional dry contact interface card is required				
	Network support		Optional LAN interface card is required				
Acquetic	During normal operati	on	45 dB	46 dB			
Acoustic noise	During hattery operation or when the ambient		51 dB	55 dB			
Heat dissipation (At rated operation, after battery charging completed)		127 W	254 W				
Input leakage current		3 mA 3.5 mA					
Operating environment			Ambient temperature: -20 to +55°C; ⁽⁶⁾ relative humidity: 10 to 90% (non-condensing)				
Storage environment ⁽⁷⁾			Ambient temperature: -15 to +60°C; relative humidity: 10 to 90% (non-condensing)				
EMC standard			VCCI 32-1 ClassA				
Separate opt			001 02 1 01000A				
Rack support rail ⁽⁸⁾			RM030 (2U)	RM028 (4U)			
Floor mounting brackets ⁽⁹⁾		FMA11KA00	Included				
Caster ⁽¹⁰⁾		CBA11KA01	CBA11KA02				
Air filter kit ⁽¹¹⁾		FL008-3	FL010-3				
. III III III III III			1. 2000 0	1.20.00			

- (1) If single-wire grounding the AC input and output, set the input/output ground phase according to the UPS specification. The W (N) terminal of AC input (S phase) and the W (N) terminal of AC output (V phase) are to be grounded.
- (2) The inverter synchronizes operation with AC input and allows uninterrupted transfer through a bypass circuit provided that the AC input frequency is within a range of the rated frequency ±3% (1, 3, 5, or 7% selectable) and the AC input voltage is within the rated voltage $\pm 20\%$ (if the load level is less than 70%: between -40%
- (3) Max. capacity during battery recovery charging
- (4) At 25°C ambient temperature and load power factor of 0.8, using new, fully charged batteries.
- (5) Assuming 10 power outages per year
- (6) Battery charging will stop when battery temperature exceeds 55°C.
- (7) To extend battery life, avoid use or storage for extended periods of time in environments exceeding $+30^{\circ}$ C. When storing UPSs without operating for a long period, battery recharging once every six months is required.
- (8) Used for mounting a UPS unit on a EIA/JIS standard 19-inch rack.
- (9) Used to secure a UPS to the floor.
- (10) Used to move a vertically-installed UPS.
- (11) Use an air filter at an ambient temperature of 40°C or less.

Input plug shape



Output outlet shape



SANYO DENKI CO., LTD. 3-33-1 Minami-Otsuka, Toshima-ku, Tokyo 170-8451, Japan TEL: +81 3 5927 1020

https://www.sanyodenki.com

The names of companies and/or their products specified in this catalog are the trade names, and/or trademarks and/or registered trademarks of such respective companies. SANUPS is a trademark of SANYO DENKI CO., LTD.