

SANYO DENKI Develops High-Efficiency Online UPS SANUPS A23D in 50 and 100 kVA Models

SANYO DENKI CO., LTD. has developed and launched two models of high-efficiency, medium- and large-capacity online UPS SANUPS A23D. This UPS has an increased conversion efficiency, reducing costs and saving energy.



Features

1. High Efficiency

This UPS achieves a conversion efficiency of up to 95%, achieving a 2% increase from our existing product.⁽¹⁾ This keeps power consumption and heat generation at a low level, reducing power costs and CO₂ emissions.

2. Reduced Battery Drain and Degradation

With its wide input voltage range,⁽²⁾ this UPS reduces the number of unnecessary transfers to battery power when power conditions are poor, reducing battery drain and degradation. This keeps the battery ready for critical outages, while requiring battery replacement less often.

3. Reduced Maintenance Costs

Cooling fans and electrolytic capacitors do not need to be replaced for 15 years, while fuses and relays also last for 10 years.

4. Improved Operability

A color LCD touch panel is used for improved visibility and operability.

5. Combination with a Generator

This UPS has a walk-in feature⁽³⁾ that gradually receives power from an emergency generator. This helps minimize the generator capacity, building an efficient emergency power system.

(1) Comparison was made between a new 100 kVA model and our existing A23C104 at the rated output.

(2) At loads less than 60%, the lower limit value covers -30% from the rated voltage.

(3) Walk-in feature: A function to increase the UPS input current gradually, aimed to limit inrush current.

Specifications

Model No.		A23D503	A23D104
Rated output capacity		50 kVA	100 kVA
Topology		Double conversion online	
AC input	Voltage range	200 V \pm 15%, 210 V \pm 10%, 220 V -10% to +5% ⁽¹⁾	
	Number of phases/wires	3-phase 3-wire	
AC output	Rated voltage	200/210/220 V	
	Voltage regulation	Within \pm 1% of rated voltage	
Load power factor	Rated	0.9 (lagging)	
	Fluctuation range	0.7 to 1.0	
Battery backup time ⁽²⁾		10 min	
Operating environment		Temperature: 0 to +40°C Humidity: 30 to 90% RH (non-condensing)	
Dimensions [mm]			
Width		600	800
Depth		700	700
Height		1775	1950

(1) At loads less than 60%, the lower limit value covers -30% from the rated voltage.

(2) At a 25°C ambient temperature and a rated load power factor, using new, fully charged batteries.

Applications

Data centers, telecom equipment, telecom infrastructure, production lines, and research facilities

Release Date

January 7, 2022

The information stated in this release is current as of January 7, 2022.

“SANUPS” is a trademark of SANYO DENKI CO., LTD.