OMRON

Switch Mode Power Supplies

S8VK-X



Production Site Innovation inspired by IoT

OMRON aims to create the production site of the future where the health of critical components is accessible from anywhere.

- Machine health is visible 24/7
- Information is displayed by individual machine and production site location
- Historical data is available for analytics

124

(RTA)

Facility conditions will be accessible through IoT connectivity all over the world. The data collected will help optimize each facility's operating rates and drastically change preventative maintenance activities.

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Currently

Innovative Facility Maintenance through Power

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Equipment status is not accessible. Maintenance personnel must physically inspect each machine to identify defective equipment.

Retrieving and centrally monitoring the status of power supplies enables you to plan equipment maintenance activity more effectively. This eliminates unexpected downtime and premature power supply replacement, thus reducing overall maintenance costs.

Maintenance personnel must respond quickly to any machine experiencing an issue.

Existing preventative maintenance programs replace equipment far before the service life of the component, increasing their maintenance costs.

Supply Monitoring

From now on Centralized monitoring of equipment Each machine and facility site can monitor the voltage, current, and expected life of their power supplies from a central location. Tokyo Voltage 24.1 V 24.2V 12.1 V 23.8V 24.1V Current 1.3 A 2.0 A 0.5 A 9.1 A 18.8 A Replacement 4 years 3 years time 1.5 years 0.6 years 0.4 2

Improved Maintenance Planning

Historical data analysis can help plan machine maintenance activity more strategically.

Enhanced facility uptime and reduced maintenance costs

Improved maintenance activity planning prevents unexpected downtime and reduces premature component replacement, thus lowering maintenance costs.

The first step in scheduled maintenance: knowing when to replace your power supply.

S8VK-X calculates the deterioration of the internal electrolytic capacitor based on its component's temperature. It is indicated on the display as well as via the communications system.



S8VK-X power supplies help promote an innovative style of facility maintenance.

220 mm

asper states



S8VS 240-W models

The space-saving design enables you to mount side-by-side and replace conventional power supplies in a control panel smoothly.

*1. According to OMRON investigation in October 2017.

116 mm*2

Switch Mode Power Supplies

S8VK-X

*2. Two units of S8VK-X 240 W and W4S1-03B Switching Hub





Our shared Value Design for Panel (herein after referred to as Value Design) concept for the specifications of products used in control panels will create new value to IEI our customer's control panels. Combining multiple products that share the Value Design concept will further increase the value provided to control panels.



Compatible with multiple communication methods covering a wide range of applications globally.

Compatible with EtherNet/IP^{*}/

System configuration example



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Convenient local indicator displays current power supply status.

Easy-to-read Local Indicator

Advantages during design and measurement

You can easily check the expected output voltage and the designed current (steady-state and maximum) without using measuring equipment.



Advantages during operation

You can check the output voltage and current of the power supplies on site without using measuring equipment. Furthermore, you can check the maximum current value recorded.



Advantages during malfunction and maintenance

You can diagnose issues, while checking the output voltage and current, by using the local indicator without using measuring equipment.



Communications and display items

Item		Monitor display	Communication		
			Etheri CIP message	net/IP Tag data link	Modbus TCP
Output voltage		~	Read	Read	Read
Output current		\checkmark	Read	Read	Read
Output peak hold current		\checkmark	Read and write*	Read	Read and write*
Years until replacement Percentage until replacement		~	Read	Read	Read
Total run time		\checkmark	Read	Read	Read
Continuous run time		\checkmark	Read	Read	Read
Self-diagnostics	Overheating alarm	\checkmark	Read	Read	Read
	Measured value error	\checkmark	Read	Read	Read
	Memory error	\checkmark	Read	Read	Read
Product model			Read	Read	Read
Serial number			Read	Read	Read
Firmware version			Read	Read	Read
IP address Subnet mask Default gateway			Read and write	Read	Read and write
MAC address			Read	Read	Read

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