



Lloyd's  
Register

## Type Approval Certificate

*This is to certify* that Certificate No. 16/80002 for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

<b>PRODUCER</b>	OMRON (Shanghai) Co., Ltd. No.789 Jinji Road, Jinqiao Export Processing District, Pudong New Area, 201206, Shanghai, China
<b>PLACE OF PRODUCTION</b>	No.789 Jinji Road, Jinqiao Export Processing District, Pudong New Area, 201206, Shanghai, China
<b>DESCRIPTION</b>	Power Supply
<b>TYPE</b>	S8VK-S series
<b>APPLICATION</b>	Marine applications for use in environmental categories ENV1, ENV2 and ENV3 in the "General Power Distribution Zones" as defined in LR Type Approval System Test Specification No. 1 July 2015 where the Test Specification is satisfactory for the intended operation.
<b>ADDITIONAL TESTS</b>	Low Temperature Test: 16 hours at -40°C for S8VK-S06024/S12024; Low Temperature Test: 16 hours at -25°C for S8VK-S24024/S48024;
<b>DESIGN CODE STANDARD</b>	Manufacture's specification:-
<b>Certificate No.</b>	16/80076(E1)
<b>Issue Date</b>	24 August 2016
<b>Expiry Date</b>	03 February 2021
<b>Sheet</b>	1 of 3



Vivian Xu  
Shanghai Technical Support Office

*Lloyd's Register Classification Society (China) Co., Ltd*  
19<sup>th</sup> Floor, Ocean Towers, 550 Yan An Dong Road, Shanghai 200001

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## RATINGS

S8VK - S <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> - <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> (1) (2) (3) (4) (5)		
S8VK - S Power Supply	(1) Output	(2) 060 - 60W type 120 - 120W type 240 - 240W type 480 - 480W type
	Output Voltage	(3) 24 - +24V DC
	Remodelled products (A to Z)	(4) Remodelled product for customer with Standard safety.
	Remodelled products (300 to 999)	(5) Remodelled product for customer with Standard safety.
Rated input voltage / Rated frequency		100~240V AC (50/60 Hz) / 90~350V DC
Installation Information		single mounting; close mounting with 0mm min. interval for S8VK- S06024/S12024; close mounting with 15mm min. interval for S8VK- S24024/S48024;

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**LIMITATIONS OR OTHER CONDITIONS:-**

1. Deratings are to be followed, as specified by the manufacture.
2. In case of DIN rail installation, end plate "PFP-M" manufactured by OMRON Corp., or equivalent is to be installed in the both ends of the unit, as specified by the manufacture.
3. Noise filter of FN2080-10-06 manufactured by SCHAFFNER Corporation, or equivalent is to be connected to the input terminals (60W type is exclusion), as specified by the manufacture.
4. Clamp filters, 'ZCAT2035-0930' manufactured by TDK or equivalent, are to be respectively used at input and output lines (60W and 120W type are exclusion), as specified by the manufacture.
5. Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.
6. If the specified standards are amended during the validity of this certificate, the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply.
7. (In case of applications other than Marine) The application of this Type Approval Certificate will be limited to the relevant scope of the Specified Standards and acceptance thereof by the local authorities.

*"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register Classification Society (China) Co., Ltd. of any modification or changes to the equipment in order to obtain a valid certificate."*

The attached Design Appraisal Document No. STS/TA/308441, Issue No. 0, dated 24 August 2016 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 16/80002 to which this extension should be attached.

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