DNV·GL

Certificate No:
TAE000010E

TYPE APPROVAL CERTIFICATE

This is to certify:

That the UPS

with type designation(s)
S8BA

Issued to
OMRON Corporation
Minato-ku Tokyo, Japan

is found to comply with
DNV GL rules for classification – Ships, offshore units, and high speed and light craft

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

This Certificate is valid until **2021-09-06**.

Issued at **Høvik** on **2016-09-07**

for **DNV GL**

DNV GL local station: **Yokohama**

Approval Engineer: **Nicolay Horn**

Trond Sjåvåg
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

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Job Id: **262.1-020575-1**
Certificate No: **TAE000010E**

Product description

UPS. 24 V DC back up for instantaneous voltage drop or power interuption.

Type	Input Voltage	Output			Dimention (mm) W x H x D	Weight
		Voltage	Current	Capacity		
S8BA-24D24D120LF	24V DC	24V DC	5A	120W	94 x 100 x 100	0.8 kg
S8BA-24D24D240LF			10A	240W	148 x 100 x 100	1.3 kg
S8BA-24D24D360LF			15A	360W	270 x 100 x 100	2.0 kg
S8BA-24D24D480LF			20A	480W	270 x 100 x 100	2.3 kg

Application/Limitation

For installation in control rooms and dry accommodation spaces onboard ships and mobile offshore units.

To be installed in an enclosure with an IP degree in accordance with DNV Rules w.r.t. location if higher IP protection than IP20 is required.

For S8BA-24D24D360LF and S8BA-24D24D480LF, the product has to be enclosed in a metal enclosure in order to satisfy the class requirements of radiated emissions.

Type Approval documentation

Tests carried out

EMC, Low temperature, Dry heat & Vibration in according to DNVGL-CG-0339 Class A, Humidity/ Damp heat in accordance with DNVGL-CG-0339 Class B. Power Supply Failure and variation test in according to DNVGL-CG-0339. EMC in accordance with DNVGL-CG-0339 Class A.

Marking of product

OMRON –model no.– input rating – output rating.

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval is complied with and that no alterations are made to the product design or choice of materials.
The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Routine tests (RT) checked (if not available, tests according RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Assessment to be performed at least every second year.

END OF CERTIFICATE