



TYPE APPROVAL CERTIFICATE

Certificate No:
TAE000140
Revision No:
1

This is to certify:

That the UPS

with type designation(s)
Uninterruptable Power Supply, SRT XLIM

Issued to
American Power Conversion Corporation (A.P.C.) B.V.
Cavite, Philippines

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

Application :

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

Issued at **Høvik** on **2021-05-19**

This Certificate is valid until **2026-05-18**.

DNV local station: **Manila**

Approval Engineer: **Marcin Tobiasz**

for **DNV**

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Trond Sjøvåg
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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Product description

Online UPS's for computer and navigation equipment. Protection degree: IP20.

Type	Input Voltage	Output	Output voltage	Input current
SRT5 KRMXLIM	220V/230V/240V AC, 50/60 Hz	5000 VA	220/230/240 V AC, 50/60 Hz	24A
SRT6 KRMXLIM	220V/230V/240V AC, 50/60 Hz	6000 VA	220/230/240 V AC, 50/60 Hz	30A

Additional parts (optional) :

Type	Description
SRT192RMBPM BATTERY PACK	Marine Battery pack 192V
SRT6RMM	EMC Filter

Place of Manufacturer

EMC Filter:
 Schaffner EMC Co. LTd.
 Northern Region Industrial Estate, Amphur Muang P.O.Box 14, 67 Moo 4 Tambon Ban Klang
 TH-Lamphun 5100
 Thailand

Application/Limitation

EMC filter must be used for complying with EMC requirement class B (Bridge zone).

The output current will derate if operating is above 40°C. Derating with 2,5 % /°C > 40°C.

Applicable for bridge installation in accordance with Class requirements. Use together with equipment that requires MED certificate /wheelmark is not reviewed and may require additional tests.

End user responsible for correct IP protection according to location and use.

Type Approval documentation

Tests carried out

Tested according to DNV-GL Rules for Ships Pt.4 Ch.8 Sec.7. Comply with the relevant clauses of the IEC 62040-3 standard. In addition "Safe compass distance test" and "acoustic noise test".

Marking of product

APC Part number – UPS input voltage and max input current – UPS output voltage, max output current and output power in VA and Watts.

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are 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 to 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.

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate."

END OF CERTIFICATE