

# TYPE APPROVAL CERTIFICATE

**This is to certify:**

**That the UPS**

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

Issued to  
**Schneider Electric**  
**North Andover MA, United States**

is found to comply with  
**DNV GL rules for classification – Ships and offshore units**

**Application :**

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

This Certificate is valid until **2021-05-19**.

Issued at **Høvik** on **2016-05-20**

DNV GL local station: **New York**

Approval Engineer: **Georgy Abramenko**

for **DNV GL**

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**Marit Laumann**  
**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.

## 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

American Power Conversion (APC) B.V.  
2<sup>nd</sup> street, PEZA, Cavite Economic Zone,  
4106 Rosario, Cavite  
Philippines

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

### Documentation:

Schematic Power Bd 640-5660E, dated 24. May 2014.  
Schematic LPS Bd 640-5667C, dated 25 March 2014.  
Schematic Filter Bd 640-5663D, dated 06 November 2014.  
Schematic Display Bd 640-5666C, dated 25 March 2014.  
Schematic Control Bd 640-5662E, dated 06 March 2014.  
Schematic Comm Bd 640-5665D, dated 09 May 2014.

### Test Reports:

Vibration test report, NP0395-1, dated 03 February 2016.  
Performance test, dated 03 March 2015.  
EMI/EMC tests for 5kVA, 6kVA, dated 02 March 2016.  
Product safety test, dated 07 April 2016.  
Compass safe distance test, EP0395-1, dated 05 April 2016.  
Acooustic test report, dated 07 March 2014.  
CB test report, dated November 2009.

Job Id: **262.1-018372-1**  
Certificate No: **TAE0000140**

### **Tests carried out**

Tested according to type approval program No.6-800 Appendix A 822.20 SEMICONDUCTOR CONVERTERS. Comply with the relevant clauses of the IEC 62040-3 standard. In addition "Safe compass distance test" and "acoustic noise test".

### **Marking of product**

Schneider Electric Part number –UPS input voltage and frequency – UPS max input current – UPS output 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.
- Assessment to be performed at least every second year.

END OF CERTIFICATE