

# TYPE APPROVAL CERTIFICATE

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**This is to certify:**

**That the UPS**

with type designation(s)  
**Uninterruptible Power Supply SURT XLIM**

Issued to  
**Schneider Electric IT Corporation**  
**West Kingston RI, United States**

is found to comply with  
**Det Norske Veritas' Rules for Classification of Ships, High Speed & Light Craft and Det Norske Veritas' Offshore Standards**

**Application :**

**Online UPS's for computer and navigation equipment.**  
**Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**

This Certificate is valid until **2019-08-26**.

Issued at **Høvik** on **2015-08-27**

DNV GL local station: **New York**

Approval Engineer: **Ludovico Gullifa**

for **DNV GL**

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**Marit Laumann**  
**Head of Section**

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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.

Part no.	Type	Input Voltage	Output	Output voltage	Output current
SURT1000 XLIM	APC SMART-UPS RT 1000VA 230V - MARINE	180 - 280 V AC, 45 - 65 Hz	1000VA	220/230/240 VAC	6A
SURTD2200 XLIM	APC SMART-UPS RT 2200VA 230V - MARINE	180 - 280 V AC, 45 - 65 Hz	2200VA	220/230/240 VAC	12A
SURTD3000 XLIM	APC SMART-UPS RT 3000VA 230V - MARINE	180 - 280 V AC, 45 - 65 Hz	3000VA	220/230/240 VAC	16A
SURT6000 XLIM	APC SMART-UPS RT 6000VA 230V - MARINE	180 - 280 V AC, 45 - 65 Hz	6000VA	220/230/240 VAC	32A

### Additional parts

Part no.	Type	Description
SURT192RMXLBP	APC SMART-UPS RT 192V RM BATTERY PACK	Battery pack 192V
SURT48RMXLBP	APC SMART-UPS RT 48V RM BATTERY PACK	Battery pack 48V
SURT023M	SURT023M - APC 3000VA FILTER - MARINE	EMC filter
SURT024M	SURT024M - APC 6000VA FILTER - MARINE	EMC filter

## Place of Manufacturer

APC Cavite 2  
Lot 10, Block 16, Phase IV PEZA  
Rosario, Cavite, Philippines 4106

### EMC filter:

Schaffner EMC Co. Ltd.  
Nothern Region Industrial Estate, Amphur Muang P.O. Box 14, 67 Moo 4 Tambon Ban Klang  
TH-Lamphun 51000, 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:

SURT6000XLIM-SLD rev 1, dated 23. May 2011.  
SURTD3000XLIM-SLD rev 1, dated 20-Sept.-2010.  
SURT1000XLIM-SLD rev 1, dated 01-Oct.-2010.  
SURT6000XLIM, SURTD3000XLIM and SURT1000XLIM datasheet  
Dwg: SURT6000XLIM rev. 0, SURTD3000XLIM rev.1, SURTD2200XLIM rev.1, SURT 1000XLIM rev.1,  
SURT024M rev.1, SURT023M rev.1 SURT48XLBP rev.1, SURT192XLBP rev1.

### Test Reports:

DELTA Test report - Vibration Test for Marine Type Approval of SURT2000XLI and SURT6000XLI, dated 15 July 2010.  
BV Test Report Curtis-Straus LLC – SURT192RMXLBP Battery Pack, Vibration, dated 28. July 2010.  
BV Test Report Curtis-Straus LLC – SURT48RMXLBP Battery Pack, Vibration, dated 20. July 2010.

Job Id: **262.1-008748-3**  
Certificate No: **TAE000000K**

BV Test Report Curtis-Straus LLC – SURT023M Filter, Vibration, dated 28. July 2010.  
BV Test Report Curtis-Straus LLC – SURTD3000XLIM with SURT192XLBP and AC filter SURT023M, EMC, dated 28. July 2010.  
BV Test Report Curtis-Straus LLC – SURT1000XLIM with SURT48XLBP and AC filter SURT023M, EMC, dated 28. July 2010.  
BV Test Report Curtis-Straus LLC – SURT6000XLIM with SURT192XLBP and AC filter SURT024M, EMC, dated 21. Mars 2011  
BV Test Report Curtis-Straus LLC – AC filter SURT023M, Vibration, dated 11. April 2011  
APC report – SMART UPS, dated 31. May 2011.

### **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**

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

### **Periodical assessment**

The scope of the periodical assessments 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 periodical assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Production Sample Tests (PST) and Routines (RT) checked (if not available tests according to PST and 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 to be performed at least every second year.

END OF CERTIFICATE