

TYPE APPROVAL CERTIFICATE

This is to certify:

That the UPS

with type designation(s)
MGE Galaxy 5500 Marine

Issued to
SCHNEIDER ELECTRIC IT FRANCE
SAINT ISMIER, France

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

Application :

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

This Certificate is valid until **2019-09-06**.

Issued at **Høvik** on **2015-09-07**

DNV GL local station: **Marseille**

Approval Engineer: **Nicolay Horn**

for **DNV GL**

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.

Name and place of manufacturer

Schneider Electric IT France Montbonnot Saint Martin France	Schneider Electric Bangalore India
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Product description

MGE Galaxy 5500 Marine: UPS for general emergency equipment. Equipped with battery test facility and automatic by-pass.

Rating kVA PF = 0.9	20/18	30/27	40/36	60/54	80/72	100/90	120/108
Normal AC supply input							
Nominal Input Voltage	3 ph 250V at 70 % load – 342 V to 470 V at 100% load						
Input Mains 1 and Mains 2	Separate or common						
Frequency	45 to 66 Hz						
By pass system input							
Nominal input voltage	380V, 400V, 415V ± 10 %, 440V +6% -10%						
Frequency	50 / 60 Hz ± 10 %						
Output							
Output voltage	3 Ph+N 380V - 400V - 440V ± 3 %						
Voltage regulation	± 1 %						
Frequency	50 / 60 Hz						
Over load	150% in 1 min., 125% in 10 min						
Output total TDHU	< 2 %						
Max load crest factor	3 : 1						
Batteries							
Backup time	5 min. to 8 h with standard internal charger						
Type	Valve Regulated Lead Acid batteries in an integrated box						
Overall efficiency							
Double conversion mode	Up to 94%						
Economy mode	Up to 97%						
Environmental conditions							
Storage temperature	- 25°C to + 45 °C						
Operating temperature	Up to 40°C *						
Dimensions							
Overall dimensions (hwxwd)	20-60 kVA: 2240 x 735 x 1095 mm (without batteries) 80-120 kVA: 2200 x 735 x 1095 mm (without batteries)						

* Output to be derated for environmental temperatures up to 45 °C. See Application / limitation

Classification according to DNV Sfc 2.4	
Temperature class	A
Vibration class	A
Humidity class	A
Enclosure class	A*
EMC class	A*

* See "Application / limitation" for restrictions / limitations

Application/Limitation

The output current will be decreased if operating at 45°C for longer period or with restricted ventilation. Derating with 2.5 % / °C > 40°C.

End user responsible for correct enclosure protection (IP) wrt. to location.

Mounting on shock-absorber at the bottom.

This type approval does not replace the requirement for a product certificates in accordance with the DNV Rule paragraph Pt.4, Ch.8, Sec. 1, B303 (≥ 50 kVA).

UPS with EMC classed C2 or C3 according to IEC 62040-2 can be installed in "special distribution zone" and "general power distribution zone" in accordance with IEC 60533 provided precautions are taken to attenuate these effects on the distribution system, so the safe operation is assured.

To be installed in climatic controlled areas.

Type Approval documentation

Tests carried out

Type tests in accordance with IEC 62040-1-2, EMC immunity in Accordance with DNV Standard for Certification No. 2.4, EMC emission in Accordance with IEC 62040-2 class C3, Vibration, Damp heat in accordance with DNV Class A (no condensation), Dry heat in accordance with DNV Class A.

Marking of product

APC/ MGE – Galaxy 5500 [Marine](#) – technical data

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 survey 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.

Assessment to be performed at least every second year.

END OF CERTIFICATE