



Certificate no.:
TAE000056M

TYPE APPROVAL CERTIFICATE

This is to certify:

that the UPS

with type designation(s)

NRT4-U010B-C, NRT4-U015B-C, NRT4-U020B-C, NRT4-U030B-C, NRT4-B015, NRT4-B030, NRT4-KIT-DNV, NRT4-MEC-DNV

issued to

Socomec S.A.S.

Benfeld, France

is found to comply with

DNV 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.

Issued at **Høvik** on **2026-01-20**

This Certificate is valid until **2031-01-19**.

for **DNV**

DNV local unit: **Italy/Malta CMC**

Approval Engineer: **Qiang William Guo**

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 USD 300 000.

Product description

Model name	NRT4-U010B-C	NRT4-U015B-C	NRT4-U020B-C	NRT4-U030B-C
EMC Filter	NRT4-MEC-DNV			
EBM	NRT4-B015	NRT4-B015	NRT4-B030	NRT4-B030
Installation KIT	NRT4-KIT-DNV			
Power rating	1000VA/1KW	1500VA/1.5KW	2000VA/2KW	3000VA/3KW
Input performance	160-300VAC,50/60Hz			
Output performance	200/208/220/230/240VAC,50/60Hz			
Maximum PF	PF = 1			
EBM(Battery units)	36VDC/9AH		72VDC/9AH	
Maximum EBM quantity : 4				
IP rating	IP20			
Operating temperature/ Derating	0-40°C (40-50°C derating to 80%, 50-55°C derating to 60%)			

Note: please refer to the user manual for more information.

Application/Limitation

Environmental location class according to DNV-CG-0339

Temperature class	A
Humidity class	B
Vibration class	A*(with vibration kit)
EMC class	EMC class B for 1KVA and 3KVA; EMC class A for 1.5kVA and 2kVA (with filter Box)*
Enclosure class	A(IP20)

*The vibration kit and filter box shall be provided when installed on board

The output current will be decreased if operating temperature over 40 degrees.

Protection degree: IP20. End user responsible for correct IP protection according to location and use.

The instruction and user manual from maker shall be observed and followed when installed on board.

Compass safe distance test results refer to IEC60945:2002/COR.1:2008 and DNV-CG-0339 AUG.2021

Item	NRT4-U010B-C	NRT4-U015B-C	NRT4-U020B-C	NRT4-U030B-C
Max standard compass distance	1000mm	1250mm	1650mm	1250mm
Max standard other compass distance (steering compass)	800mm	750mm	1150mm	1050mm

Type Approval documentation

Tests carried out

Safe/type test in accordance with DNV Rule Pt 4 Ch 8 Sec 7 Table 5, edition July 2025, i.e. IEC62040-3 ;
Environmental test in accordance with DNV-CG-0339 Aug.2021, i.e. electrical power supply failure, power supply variation, high voltage, insulation resistance, vibration, dry heat, damp heat, cold ,IP,EMC, ,compass safe distance, Acoustic noise test.

Marking of product

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

Manufactured by:

Lian Zheng Electronic (Shenzhen) Co.,Ltd,

No.4, Liufang Road, 67 Block, Xin'an Street Office, Baoan
District, Shenzhen City, Guangdong Province 518101, China

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