

TYPE APPROVAL CERTIFICATE

Certificate No:
TAE00003EV
Revision No:
4

This is to certify:

That the UPS

with type designation(s)

CP DC UPS 24V 20A/10A, CP DC UPS 24V 40A, CP M SNT3 500W 24V 20A, CP M DM20, PRO MAX 480W 24V 20A, CP A Battery 24V DC 1.3Ah / 3.4Ah / 7.2Ah / 12Ah, Battery DURA ECO LA-BAT 24V 1.2Ah / 3.4Ah / 7Ah / 12Ah / 17Ah

Issued to

Weidmüller Interface GmbH & Co. KG
Detmold, Germany

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 **Hamburg** on **2022-11-10**

for **DNV**

This Certificate is valid until **2026-09-07**.

DNV local station: **Hamburg – CMC North/East**

Approval Engineer: **Dariusz Lesniewski**

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Joannis Papanuskas
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.



Form code: TA 251

Revision: 2021-03

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Page 1 of 3

Product description

UPS control unit

CP DC UPS 24V 20A/10A

Nominal input voltage: 24 VDC

Nominal output voltage: 24 VDC

Nominal output current (@ 60°C): 10 A / 20A

Revision VS0.4A

CP DC UPS 24V 40A

Nominal input voltage: 24 VDC

Nominal output voltage: 24 VDC

Nominal output current (@ 60°C): 40 A

Revision VS0.4A

Battery module

CP A Battery 24V DC 1.3Ah

VRLA technology, nominal voltage 24 VDC, nominal capacity 1.3Ah

Revision / Assembly Description Battery Pack V2.8

CP A Battery 24V DC 3.4Ah

VRLA technology, nominal voltage 24 VDC, nominal capacity 3.4Ah

Revision / Assembly Description Battery Pack V2.8

CP A Battery 24V DC 7.2Ah

VRLA technology, nominal voltage 24 VDC, nominal capacity 7.2Ah

Revision / Assembly Description Battery Pack V2.8

CP A Battery 24V DC 12Ah

VRLA technology, nominal voltage 24 VDC, nominal capacity 12Ah

Revision / Assembly Description Battery Pack V2.8

Battery module

DURA ECO LA-BAT 24V 1.2Ah

VRLA-AGM technology, nominal voltage 24 VDC, nominal capacity 1.2Ah

DURA ECO LA-BAT 24V 3.4Ah

VRLA-AGM technology, nominal voltage 24 VDC, nominal capacity 3.4Ah

DURA ECO LA-BAT 24V 7Ah

VRLA-AGM technology, nominal voltage 24 VDC, nominal capacity 7Ah

DURA ECO LA-BAT 24V 12Ah

VRLA-AGM technology, nominal voltage 24 VDC, nominal capacity 12Ah

DURA ECO LA-BAT 24V 17Ah

VRLA-AGM technology, nominal voltage 24 VDC, nominal capacity 17Ah

Power Supply

CP M SNT3 500W 24V 20A

Nominal input voltage: 3 x 400 ... 3 x 500 VAC, Input voltage range: 3 x 320 ... 3 x 575 VAC

Nominal output voltage: 24 VDC +/-1% (adjustable 22.5 ... 29.5 VDC)

Nominal output current: 20A @ 60°C

Revision JV0.6A

PRO MAX 480W 24V 20A (Rev. 01) [See also DNV GL Certificate no. TAA00000TT]

Nominal input voltage (Wide-range Input): 100...240V AC

Nominal output voltage: 24V DC

Nominal output current: 20A @60°C, 15A @70°C

Diode Module

CP M DM20 [See also DNV GL Certificate no. 94767-10HH]

Input voltage: 24V DC SELV

Nominal output current: 20A

Integrated alarm relay

Application/Limitation

Location Classes, Compass Safe distance:
UPS control unit, Power supply, Diode module
Temperature: B (Cold test with -15°C/16h), Humidity: B, Vibration: A, EMC: B
Compass Safe Distance: Standard compass: 1,10m
Steering compass: 0,70m

Battery module (CP A Series)
Temperature: A (Cold test with -15°C/16h), Humidity: B, Vibration: A
Compass Safe Distance: Standard compass: 1,10m
Steering compass: 0,70m

Battery module (DURA ECO LA-BAT)
Temperature: A (Cold test with -15°C/16h), Humidity: B, Vibration: A
Compass Safe Distance: Standard compass: 1,30m
Steering compass: 0,80m

Power Supply: CP M SNT3 500W 24V 20A
EMC: B, 2GHz

The UPS control units are intended for use with Weidmüller power supplies, e.g. PRO-M series or equivalent approved by DNV power supplies. A direct operation on 24 V DC networks is not permitted.

The indications in the operating instructions for safe operation by DNV are to be observed

Operating instruction of the manufacturer to be observed

Type Approval documentation

As per tech.-docs. in NPS-Id: 262.1-031014-1/2/3/4

Tests carried out

Applicable tests according to class guideline DNV-CG-0339, August 2021.
IEC 60945:2002+Cor. 2008, Cold, dry heat, damp heat, vibration, flame retardancy and EMC* (6GHz**)
*if applicable; **not CP M SNT3 500W 24V 20A

Marking of product

Weidmüller - Type designation - Main data.

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