



CERTIFICATE NUMBER: LA2433571-X

PORT OFFICE: LOS ANGELES, CA

Certificate of MANUFACTURING ASSESSMENT

This is to certify that: The Undersigned did evaluate the relevant manufacturing quality procedures for the type of products of the manufacturer:

NEWMAR Plant at SANTA ANA, CA

The methods of assuring and controlling quality during production as required by the ABS Rules or Guides for the product and the associated specifications or standard were verified to reflect the specific surveys, required by the Rules and Standards for the manufacture of:

BATTERY CHARGERS

The manufacturer presented a sample or specimen of the product, representative of the "type" approved, to the undersigned, for the purpose of verifying that the "type" has been manufactured in conformance with the Manufacturer's Product Design Assessments.

This Certificate of Manufacturing Assessment is an evaluation of the manufacturer alone and is neither an approval nor a rejection of the product described above. Unless cancelled, expired or revoked, this certificate remains valid subject to annual audits

Consult the ABS Type Approval website to confirm the continued validity of this certificate and the status of the particular products being manufactured.

ISSUE DATE

3 September 2013

EXPIRATION
DATE

2 September 2018

SURVEYOR


Frank J. Hornyak


FIRST ANNUAL
ENDORSEMENT

SECOND ANNUAL
ENDORSEMENT

THIRD ANNUAL
ENDORSEMENT

FOURTH ANNUAL
ENDORSEMENT

Note: This Certificate evidences compliance with one or more of the Rules, guides, standards or other criteria of American Bureau of Shipping and is issued solely for the use of the Bureau, its committees, its clients or other authorized entities. This Certificate is a representation only that the structure, item of material, equipment, machinery or any other item covered by this Certificate has met one or more of the Rules, guides, standards or other criteria of American Bureau of Shipping as of the date of issue. Parties are advised to review the Rules for the scope and conditions of classification and to review the survey records for a fuller description of any restrictions or limitation on the vessel's service or surveys. The validity, applicability and interpretation of this Certificate is governed by the Rules and standards of American Bureau of Shipping who shall remain the sole judge thereof. Nothing contained in this Certificate or in any notation made in contemplation of this Certificate shall be deemed to relieve any designer, builder, owner, manufacturer, seller, supplier, repairer, operator or other entity of any warranty express or implied.



Confirmation of Product Type Approval

Please refer to the "Service Restrictions" shown below to determine if Unit Certification is required for this product. This certificate reflects the information on the product in the ABS Records as of the date and time the certificate is printed.

Pursuant to the Rules of the American Bureau of Shipping (ABS), the manufacturer of the below listed product held a valid Manufacturing Assessment (MA) with expiration date of 03/SEP/2018. The continued validity of the Manufacturing Assessment is dependent on completion of satisfactory audits as required by the ABS Rules.

And; a Product Design Assessment (PDA) valid until 15/DEC/2020 subject to continued compliance with the Rules or standards used in the evaluation of the product.

The above entitle the product to be called Product Type Approved.

The Product Design Assessment is valid for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Product Name: Battery Charger

Model Name(s): PT-14W, PT-24-8W, PT-25W, PT-24-13W, PT-40W, PT-40U, PT-24-20W, PT-24-20U, PT-80, PT-24-45U, PT-24-60W, PT-24-95U, PTMS 12-100, PTMS 24-67.

Presented to:

NEWMAR
2911 WEST GARRY AVENUE
United States

Intended Service:	Charging batteries and providing clean stable DC power in marine applications.
Description:	The listed PT series battery chargers are all smart multistage battery chargers settable for flooded lead acid, gel, and agm batteries. In addition, the PTMS series offer redundant hot swap modules within a single case.
Tier:	3
Ratings:	PT-14W: 14 amps @ 12 Vdc, PT-24-8W: 8 amps @ 24 Vdc, PT-25W: 25 amps @ 12 Vdc, PT-24-13W: 13 amps @ 24 Vdc, PT-40W: 40 amps @ 12 Vdc, PT-40U: 40 amps @ 12 Vdc, PT-24-20W: 20 amps @ 24 Vdc, PT-24-20U: 20 amps @ 24 Vdc, PT-80: 80 amps @ 12 Vdc, PT-24-45U: 45 amps @ 24 Vdc, PT-24-60W: 60 amps @ 24 Vdc, PT-24-95U: 95 amps @ 24 Vdc, PTMS-12-100: 100 amps @ 12 Vdc, PTMS-24-67: 67 amps @ 24 Vdc
Service Restrictions:	Unit Certification is not required for this product (Rating less than 50KVA) If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined. (1) PTMS Series 12-100 & 24-67 may be used to supply essential services. (2) Models PT-14W, PT-25W, PT-40W, PT-40U, PT-24-8W, PT-24-13W, PT-24-20W, PT-24-20U, PT-24-45U, PT-24-60W, PT-24-95U, and PT-80 may be used to supply non-essential services

or essential service where provided in a redundant arrangement. (3) PTMS Series 12-100 & 24-67, and PT-14W, PT-25W, PT-40W, PT-40U, PT-80, PT-24-8W, PT-24-13W, PT-24-20W, PT-24-20U, PT-24-45U, and PT-24-95U model units installed in spaces with ambient temperatures above 50 degrees C must be derated in accordance with manufacturer recommendations and shall not be installed in spaces with ambient temperatures above 60° C. (4) PT-24-60W model units shall not be installed in spaces with ambient temperatures above 50° C.

Comments:

Moved Service restriction notes to Service Restriction Area.

Notes / Documentation:

Drawing No. ABS PDA Renewal Form, PDA Revalidation, Revision: -, Pages: 2
Drawing No. Correspondence, Email of 11-10-2015, Revision: -, Pages: 2
Drawing No. Newmar Battery Chargers, Revision: -, Pages: 1

Term of Validity:

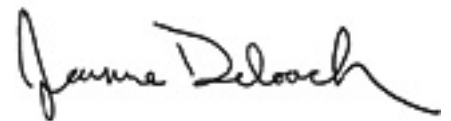
This Product Design Assessment (PDA) Certificate 15-GS1452297-PDA, dated 16/Dec/2015 remains valid until 15/Dec/2020 or until the Rules or specifications used in the assessment are revised (whichever occurs first). This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product. Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA. Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

ABS Rules:

Rules for Building and Classing Steel Vessels (2015): 4-1-1/3.3, 4-8-2/3.7.3(c) {PTMS Series Only}, 4-8-3/5.9. Rules for Building and Classing Steel Vessels Under 90 Meters (285 Feet) In Length (2015): 4-1-1/3.3, 4-6-2/7.1.6(c) {PTMS Series Only}, 4-6-4/7.19. Rules for Building and Classing High Speed Naval Craft (2015): 4-1-1/3.3, 4-8-2/3.7.3(c) (PTMS Series Only), 4-8-3/5.13.

National Standards:**International Standards:****Government Authority:****EUMED:****Others:**

Model Certificate	Model Certificate No	Issue Date	Expiry Date
PDA	15-GS1452297-PDA	16/DEC/2015	15/DEC/2020



ABS Programs

ABS has used due diligence in the preparation of this certificate and it represents the information on the product in the ABS Records as of the date and time the certificate was printed. Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. Limited circumstances may allow only Prototype Testing to satisfy Type Approval. The approvals of Drawings and Products remain valid as long as the ABS Rule, to which they were assessed, remains valid. ABS cautions manufacturers to review and maintain compliance with all other specifications to which the product may have been assessed. Further, unless it is specifically indicated in the description of the product; Type Approval does not necessarily waive witnessed inspection or survey procedures (where otherwise required) for products to be used in a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS. Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.