

[INCH-POUND]
A-A-50799A
31 May 2012

SUPERSEDING
A-A-50799
16 February 1982

COMMERCIAL ITEM DESCRIPTION

CHARGER/ANALYZER FOR VENTED CELL NICKEL-CADMIUM BATTERIES

The General Services Administration has authorized the use of this commercial item description for all federal agencies.

1. **SCOPE.** This commercial item description (CID) covers the general requirements for a general purpose, self-contained, constant current charge type battery charger/analyzer designed to charge nickel-cadmium (Ni-Cd) and Lead-Acid batteries. Battery chargers/analyzers covered by this CID are intended for commercial/industrial applications.
2. **CLASSIFICATION/PART OR IDENTIFICATION NUMBER (PIN).** This CID uses a classification system which is included in the PIN. The PIN shall be AA50799 (see 7.2).
3. **SALIENT CHARACTERISTICS.**
 - 3.1 Interface and physical dimensions. Battery chargers/analyzers supplied to this CID shall be as specified herein.
 - 3.2 Digital display capacity. Digital displays shall be provided and have the capacity to display voltage, current and battery quality.
 - 3.2.1 Current. Current shall be displayed in 99.9 full scale with an accuracy of ± 2 percent of full scale.
 - 3.2.2 Individual cell. The individual cells shall be displayed in 19.9 full scale with an accuracy of ± 2 percent of full scale.
 - 3.2.3 Visual status indication. A segmented bar display shall be provided for visual status indication of battery.
 - 3.3 Separate digital programmable timers. The charger and analyzer sections shall have separate digital programmable timers.
 - 3.4 Constant current charging. Charging cycles shall be accomplished by a 2-step constant current charging method. The constant current range this battery/analyzer shall be able to provide is from 1 Ampere (A) to 65 A, maximum.
 - 3.5 Constant potential charge. This battery charger/analyzer shall provide constant potential charge for Lead-Acid batteries.

Beneficial comments, recommendations, additions, deletions, clarifications, etc., and any data that may improve this document should be sent to: DLA Land and Maritime, ATTN: VAT, P.O. Box 3990, Columbus, OH 43218-3990, or email <mailto:CircuitProtect@dla.mil>. Since contact information can change you may want to verify the currency of the address information using the ASSIST Online database at <https://assist.daps.dla.mil/>.

3.6 Constant current discharge. This battery charger/analyzer shall provide constant current discharge from 0.2 Amperes (A) to 60 A, for capacity testing.

3.7 Cell voltage balance testing and voltmeter. This battery charger/analyzer shall provide cell voltage balance testing and an internal voltmeter.

3.8 Power source. This battery charger/analyzer shall operate from 110, 208 or 220 V ac, single phase, 50/60 Hertz (Hz) commercial power source with a maximum of 25 amperes current draw.

3.9 Battery temperature. While charging, the battery temperature, measured by a thermometer in the electrolyte of the centermost cell, shall not increase more than 15° Fahrenheit (F) (9.4° Celsius (C)) over temperature prior to the charging cycle. This applies to a battery which is at room temperature prior to the starting charge.

3.10 Environmental non-operating.

3.10.1 Ambient temperature. The ambient temperature shall be -40°F (-40°C) to +159.8 °F (+71 °C).

3.10.2 Altitude. The non-operating altitude of this unit shall be between 0 and 50,000 feet (15,240 meters).

3.11 Environmental operating.

3.11.1 Ambient temperature. The ambient temperature shall be 32°F (0°C) to 122°F (50°C).

3.11.2 Altitude. The operating altitude of this unit shall be between 0 and 8,000 feet (2,438.4 meters).

3.12 Finish. All surfaces of the cabinet shall be finished with paint or coatings which are alkaline resistant.

3.13 Marking. Battery chargers/analyzers supplied to this CID shall be provided with a corrosion-resistant metal nameplate in a visible and safe location on the charger cabinet exterior which shall contain, as a minimum the following information:

- a. Nomenclature/name
- b. Name of manufacturer
- c. Model
- d. Serial number
- e. Year of manufacture
- f. Part number
- g. Input (volts)
- h. Input (Amperes)
- i. Input frequency (hertz)

(NOTE: The part number marked on the unit pack shall be the CID PIN.)

3.14 Instructions. Brief instructions for operating this battery charger/analyzer shall be permanently mounted on or near the control panel. The instructions and/or diagrams shall be protected against elements that will affect their legibility.

3.15 Recycled, recovered, or environmentally preferable materials. Recycled, recovered, or environmentally preferable materials should be used to the maximum extent possible provided that the material meets or exceeds the operational and maintenance requirements, and promotes economically advantageous life cycle costs.

3.16 Workmanship. Battery charger/analyzers shall be processed in such a manner as to be uniform in quality and shall be free from other defects that will affect life, serviceability, or appearance.

4. REGULATORY REQUIREMENTS. The offeror/contractor is encouraged to use recovered materials to the maximum extent practicable, in accordance with 23.403 of the [Federal Acquisition Regulation \(FAR\)](#).

5. PRODUCT CONFORMANCE PROVISIONS

5.1 Product conformance. The products provided shall meet the salient characteristics of this CID, conform to the producer's own drawings, specifications, standards, and quality assurance practices, and be the same product offered for sale in the commercial market. The Government reserves the right to require proof of such conformance.

6. PACKAGING. Preservation, packing, and marking shall be as specified in the contract or order.

7. NOTES.

7.1 Intended use.

- a. The charger/analyzer covered by this CID is intended to provide a reliable, efficient and fast charging and analyzing capability in servicing a wide range of NICAD batteries by Air Force base maintenance battery shops.
- b. These activities will be provided with a charger/analyzer that is fully portable for use in the performance of their mobile functional tasks.

7.2 PIN. The PIN should be used for Government purposes to buy commercial products to this CID. See [section 2](#) for PIN format example.

7.3 Environmentally preferable materials. Environmentally preferable materials should be used to the maximum extent possible to meet the requirements of this specification. As of the dating of this document, the U.S. Environmental Protection Agency (EPA) is focusing efforts on reducing 31 priority chemicals. The list of chemicals and additional information is available on their website <http://www.epa.gov/osw/hazard/watemin/priority.htm>. Included in the EPA list of 31 priority chemicals are cadmium, lead, and mercury. Use of these materials should be minimized or eliminated unless needed to meet the requirements specified herein (see [section 3](#)).

7.4 Commercial and Government Entity (CAGE) code. For ordering purposes, inventory control, and submission of these battery charger/analyzers to DLA Land and Maritime under the Military Parts Control Advisory Group (MPCAG) evaluation program, CAGE code 58536 should be used.

7.5 Source of documents.

Federal Regulations

FEDERAL ACQUISITION REGULATION (FAR)

FAR - Federal Acquisition Regulations.

(Copies of this document are available online at <http://www.acquisition.gov/comp/far/index.html> or from the U.S. Government Printing Office, 732 N. Capital Street, NW, Washington D.C. 20401-0001.)

7.6 Ordering data. The contract or order should specify the following:

- a. CID document number, revision, and CID PIN.
- b. Product conformance provisions.
- c. Packaging requirements.

7.7 Commercial products. As part of the market analysis and research effort, this CID was coordinated with the following manufacturers of commercial products. At the time of CID preparation and coordination, these manufacturers were known to have commercial products that would meet the requirements of this CID. (NOTE: This information should not be considered as a list of approved manufacturers or be used to restrict procurement to only the manufacturers shown.)

<u>MFR's CAGE</u>	<u>MFR's name and address</u>
1WKR4	Marvel Aero International, Incorporated Christie Distribution & Service Center 20381 Lake Forest Drive, Suite B3 Lake Forest, CA 92630-8143 Phone number (949) 829-8264 Facsimile number (949) 829-8394 E-mail: mailto:smarvel@christiecb.com Uniform Resource Locator (URL): http://www.christiecb.com

7.8 Part number (P/N) supersession data. This CID PINs supersede the following MFR's P/N's as shown. This information is being provided to assist in reducing proliferation in the Government inventory system.

TABLE IV. P/N supersession data.

CID dash number	MFR's CAGE 02294
	MFR's P/N <u>1/</u>
AA50799	RF80-K

1/ The manufacturer's P/N shall not be used for acquisition to the requirements of this CID. At the time of preparation of this CID, the aforementioned commercial products were reviewed and could be replaced by the CID P/N shown For actual part marking requirements see [3.13](#).

7.9 Government users. To acquire information on obtaining these battery charger/analyzers from the Government inventory system, contact DLA Land and Maritime, ATTN: DLA Land and Maritime-FLC, Post Office Box 3990, Columbus, OH 43218-3990, or telephone (614) 692-0658.

7.10 Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extensiveness of the changes.

MILITARY INTERESTS:

Custodians:

Navy - EC
DLA - CC
Air Force - 99

Review activities:

Air Force - 71

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - FAS

Preparing activity:

DLA - CC

Project 6130-2012-002

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.daps.dla.mil>.