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INCH-POUND
A-A-59916
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COMMERCIAL ITEM DESCRIPTION

POWER SUPPLY, DIRECT CURRENT, PORTABLE
28.5 Volts Direct Current, 600 Amperes

The General Services Administration has authorized the use of this Commercial Item Description for all federal agencies.

1. SCOPE. This Commercial Item Description (CID) describes a portable, direct current (DC) power supply, herein referred to as DCPS. The DCPS has a 28.5 volt DC, 600 Ampere (amp) output rating to provide ground power to aircraft and to provide portable electrical power for avionics backshop maintenance and facility tasks.

2. SALIENT CHARACTERISTICS

2.1 Safety and environmental. The equipment shall meet all safety and environmental requirements as specified in National Fire Protection Association (NFPA) 70 – National Electrical Code (NEC), ANSI/IEEE C2 – National Electrical Safety Code and the latest applicable National Electrical Manufacturer's Association (NEMA) standards except as stated herein.

2.2 Component protection. All space in which work is performed during operation, service, and maintenance shall be free of hazardous protrusions, sharp edges, or other features which may cause injury to personnel. All rotating and reciprocating parts and all parts subject to high operational temperatures or subject to being electrically energized, that are of such nature or so located as to be hazardous to personnel, shall be guarded or insulated to eliminate the hazard. All wires, cables, tubes, and hoses shall be supported and protected to minimize chafing and

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AMSC N/A FSC 6130

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abrasion and shall be located so as to provide adequate clearance from moving parts and high operational temperatures. Grommets shall be provided wherever wires, cables, tubes, or hoses pass through bulkheads, partitions, or structural members.

2.3 Design and construction. The DCPS shall be a stand-alone, self-contained unit capable of converting three phase 50 and 60 Hertz (Hz) Alternating Current (AC) electrical power into 28.5 volt Direct Current (DC) electrical power. The DCPS shall accept any power input specified herein; all DCPS operating power shall be derived from the input power source. The DCPS shall be constructed of modular and easily replaceable subassemblies and components wherever possible. The DCPS enclosure shall have doors or covers to provide access for maintenance, repair, and replacement of components and subassemblies. The DCPS design shall include the maximum use of UL recognized or listed components. The DCPS shall be designed and constructed in accordance with all applicable European Union (EU) requirements in order to have the “CE” marking affixed (see 2.6.1). The DCPS shall be able to withstand the strains, jars, vibrations, and other conditions indicative to shipping, storage, installation, and service. Additional features and capabilities shall be permitted unless otherwise prohibited by this document.

2.4 Foreign object damage (FOD). All loose metal parts, such as pins or connector covers, shall be securely attached to the DCPS with wire ropes or chains. "Dog tag" style beaded chains shall not be provided. Removable panels, if provided, shall be attached with captive fasteners. Tire valve stem caps shall be made of plastic.

2.5 Materials, protective coatings, and finish.

2.5.1 Protective coatings. Materials that deteriorate when exposed to sunlight, weather, or operational conditions normally encountered during the service life of the item shall not be used or shall have means of protection against such deterioration that does not prevent compliance with the performance requirements specified herein. Protective coatings that chip, blister, crack, peel or scale with age or extremes of climatic conditions or when exposed to heat shall not be used. Fasteners, handles, and fittings used in the assembly of the item shall also be primed and painted unless they are specifically designed to resist deterioration without paint.

2.5.1.1 Finish. The exterior finish color of the DCPS shall be Gray, Color Number 26173 of FED-STD-595.

2.5.1.2 Exclusion of water. The design of the DCPS shall be such as to prevent water leaking into, or being driven into, any part of the DCPS interior when either in an operating or travelling configuration. All windows, doors, panels, covers, etc., shall be provided with sealing arrangements such that the entry of water is minimized when these items are correctly closed. Particular care shall be taken to prevent wetting of equipment and heat and sound proofing materials. Sharp corners and recesses shall be avoided so that moisture and solid matter cannot accumulate to initiate localized attack. Sealed floors with suitable drainage shall be provided for storage compartments, engine compartments, and other areas in the DCPS that could collect and retain water.

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2.5.1.2.1 Fluid traps and faying surfaces. There shall be no fluid traps on the DCPS. Faying surfaces of all structural joints, except welded joints, shall be sealed to preclude fluid intrusion.

2.5.1.2.2 Ventilation. Ventilation shall be sufficient to prevent moisture retention and buildup.

2.5.1.2.3 Drainage. Drain holes shall be provided to prevent collection or entrapment of water or other unwanted fluid in areas where exclusion is impractical. All designs shall include considerations for the prevention of water or fluid entrapment and ensure that drain holes are located to effect maximum drainage of accumulated fluids. The number and location of drain holes shall be sufficient to permit drainage of all fluids when the unit is in a 5 degree incline in any plane. The minimum diameter of the drain holes shall be 0.25 inch.

2.6 Markings. Manufacturer's standard markings shall be used.

2.6.1 Identification and information plates. An identification plate in accordance with MIL-STD-130 shall be securely attached to the DCPS in a readily accessible location. The identification plate shall contain the following information: Nomenclature, part number, serial number, date of manufacture, manufacturer's name, Commercial and Government Entity (CAGE) code, date of warranty expiration, and National Stock Number (NSN). The DCPS and any of its components for which the Government's unit cost is more than $5,000, is serially managed, or the procuring agency determines is mission essential, shall have Unique Identification (UID) (also known as Item Unique Identification (IUID)) information permanently affixed on or near the respective identification plate(s), marked in accordance with MIL-STD-130. UID information shall be included as both a bar code and human readable markings. The "CE" marking shall be affixed in accordance with EU requirements on or adjacent to the identification plate.

2.6 Calibration and maintenance adjustments. The design of the system shall provide for readily accessible calibration adjustments and maintenance adjustments. The calibration adjustments, wherever possible, shall be accessible without removal of the instrument case or modules. These adjustments shall be provided by variable value components. The calibration by substitution of selected components or parts is unacceptable unless specifically approved. The calibration interval shall be a period of one year or greater based on an operating time of 2,000 hours. All major components of the SSFC shall be easily removable for ease of maintenance.

2.7 Special tools. The design of the item shall minimize the requirement for special tools (see 6.3.2). All special tools shall be provided with, and stored on, the DCPS.

2.8 Accessories. Accessories to be supplied by the manufacturer with each deliverable DCPS shall include standard and optional accessories as provided by the manufacturer and listed in the manufacturer's catalog or data sheet. A written user's manual, a written programmer reference manual (if applicable), and a traceable calibration certificate shall also be provided with each DCPS unit. The user's manual(s) shall include complete details for the installation, operation, troubleshooting, maintenance and calibration of the DCPS and shall include interconnect drawings and electrical schematics for all power and control circuits and devices. A complete

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parts listing shall be delivered with each DCPS and shall include, at a minimum, the original manufacturer's name, part number, rating, identification and quantity required.

2.9 Environmental requirements. The DCPS shall be designed for indoor and outdoor use and indoor storage. The DCPS shall be primarily for use on floors of garages, aircraft hangars and exposed aircraft apron and flightline areas.

2.9.1 Operating temperature. The equipment shall meet its functional and accuracy requirements in an operating environment of -20 degrees F to +125 degrees F.

2.9.2 Non-operating temperature. The equipment shall meet its functional and accuracy requirements after being in a non-operating environment (Storage Temperature) of -65 degrees F to +160 degrees F.

2.9.3 Altitude. The DCPS shall be capable of operation from sea level to 10,000 feet (ft) and with no derating from sea level to 6000 ft. Non-Operational altitude range shall be sea level to 40,000 ft.

2.9.4 Humidity. The DCPS shall be capable of operation and storage (non-operation) from 5 to 95% (±5%) relative humidity, including conditions where condensation takes place in the form of water and frost.

2.9.5 Solar radiation. The DCPS shall not be adversely affected by full time exposure to solar radiation, such as those conditions encountered in desert like environments.

2.9.6 Fungus. All materials used in the DCPS shall be fungus resistant or shall be suitably treated to resist fungus. The DCPS shall be suitable for use in conditions encountered in a tropical environment.

2.9.7 Explosive atmosphere. The DCPS shall be suitable for use above hazardous areas as defined in NFPA 70 Article 513.3(B) and shall not have any live components within 18 inches of the floor. The DCPS shall be safe to operate outside a 20 ft distance of fueled equipment as typically encountered in garages and hangars, to include but not be limited to: Diesel powered aircraft support equipment, fuel tanks, or aircraft. The DCPS shall function properly without hazard to the unit, personnel, and surrounding equipment within this range. The DCPS shall be clearly labeled with a permanently affixed warning to read: WARNING - KEEP 20 FT CLEAR OF HAZARDOUS VAPOR SOURCE.

2.10 Physical. The DCPS shall meet the physical characteristics listed below. The DCPS shall be designed to be as small and lightweight as practical to meet the characteristics listed herein. The DCPS shall make maximum use of non-corrosive/corrosive resistant materials to reduce corrosion-related issues, i.e. rust, fungus, mildew, pitting, etc. The use of composite materials, where applicable, is encouraged. 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.

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2.10.1 Size. The DCPS shall not exceed the following critical values:

Length	60 inches
Width	36 inches
Height	50 inches
Weight	800 pounds (without cables)

2.10.2 Mobility/transportability. The DCPS shall be equipped with four wheels, casters or flat-proof tires at least 8 inches in diameter to provide mobility. Provisions for external lifting and transport by forklift shall be provided. The DCPS shall be of a design that allows one person to push and maneuver the unit on a hard level surface. The DCPS shall be equipped with a brake mechanism to hold the unit stationary. Additionally the DCPS shall be transportable by all current military cargo aircraft, spring-ride truck or trailer, railcar, boat, and ship (palletizing or crating allowed). The unit shall be equipped with sufficient tie down rings to ensure proper security while being transported.

2.10.3 Enclosure. The enclosure of the DCPS shall be designed and constructed to meet the intents of NEMA Type 4 protection while allowing for ventilation of the electronics internal to the unit. A split unit design of NEMA 4 for controls and NEMA 3R for magnetics is also acceptable. The DCPS shall permit safe operation in inclement weather conditions to include, but not be limited to: Wet/damp, dry/dusty, hot/cold, or any combination thereof. Openings in the DCPS enclosure to allow input/output cable entrance shall be sealed from the elements. Access doors or covers for maintenance, calibration and cleaning shall be provided as listed in 2.3.

2.10.4 Workmanship and wiring. The DCPS shall be manufactured with the best commercial practices and be free from defects. All wiring shall be permanently marked and each wire must be uniquely identified. All internal wiring shall be securely supported, neatly routed and protected against chafing, excess heat and strain.

2.10.5 Input power cable. The DCPS shall be supplied with a 4 wire, 100 ft input cable suitable for use in the environmental conditions listed herein. The cable shall have a voltage drop of no more than 2 percent rated voltage at continuous rated load. The cable shall attach to the unit with the use of terminal studs and the end for wall connection shall be left un-terminated and protected from physical damage until installation.

2.10.6 Output power cable. The DCPS shall be supplied with one 30 ft, 28 VDC output power cable installed and in accordance with Society of Automotive Engineering (SAE) AS90347 part number MS90347-20.

2.10.7 Cable racks. Cable racks shall be provided for mounting the AC input power cable and the DC output power cable. The racks shall be an integral part of the unit and allow for complete portability of the DCPS. All rack surfaces shall be free of sharp edges to prevent damage to cable insulation jackets.

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2.11 Functional. The DCPS shall have the functional characteristics listed below:

2.11.1 Fire prevention and safety. The enclosure of the DCPS shall employ best commercial design practices to reduce the danger to personnel from fire and explosion. Suitable vents and drains shall be incorporated into the enclosure of the DCPS to reduce the risk of hazard.

2.11.2 Illumination. Lighting shall be provided for all meter faces and controls so the DCPS may be operated under any ambient lighting condition. All lighting shall be controlled by the means of a single switch located on the control panel.

2.11.3 Acoustical noise. The maximum allowable acoustical noise of the DCPS is 68 Decibels at 7 meters from the perimeter of the unit, measured at any direction.

2.11.4 Continuous operation. The DCPS shall be designed to operate for continuous operation, within the conditions stated herein, with no damage to components.

2.11.5 Efficiency. DCPS minimum efficiency shall be not less than 91% at full load and 87% at half load.

2.12 Electrical. The DCPS shall have the electrical characteristics listed below. Electrical properties shall be adequate to fulfill the requirements listed below and shall be the continuous duty ratings of the units.

2.12.1 Electrical grounding. Electrical grounding shall be accomplished in accordance with NEC, Section 250. If the AC input electrical cable requires the use of a neutral connector it shall be grounded to the main frame and chassis of the DCPS.

2.12.2 Input power characteristics. The DCPS shall operate with 3-phase, 4-wire, grounded, Alternating Current (AC) delta or wye configured power inputs.

2.12.2.1 Input voltage and frequency. The DCPS shall be capable of accepting inputs from different voltage systems and provide continuous output power ratings with the inputs listed below. The DCPS shall be set at the factory to accept a 480 VAC input.

60 (± 5%) Hz:	208 (± 10%) 3 ph VAC
	480 (± 10%) 3 ph VAC
50 (± 5%) Hz:	380 (±10 %) 3 ph VAC

2.12.2.2 Input phase sequence. The DCPS shall accept any input power phase sequence.

2.12.2.3 Input power factor. The DCPS shall accept input power with a power factor of 0.8 to 1.0. DCPS input power factor shall not be lower than 0.85, lagging.

2.12.2.4 Input current distortion. The percent total harmonic distortion with normal input voltage while providing rated output shall not exceed 10%.

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2.12.2.5 Input surge protection. The DCPS shall be capable of sustaining an input surge described in and tested in accordance with IEEE C62.41, location category B, and continue to operate with no alarms within the specified tolerance.

2.12.3 Output power characteristics. The DCPS shall provide the output power characteristics listed below.

2.12.3.1 Output voltage. The DCPS output voltage shall be 28.5 volts dc, 2 wire, grounded negative. The output voltage shall be adjustable ±10% but shall be regulated within ±1% at all settings from zero to full load and within ±0.1% at 100% continuous load at all rated (±5%) input voltages.

2.12.3.2 Output power rating. The DCPS shall be capable of providing 600 continuous amps of 28.5 VDC electrical power into a load. Additionally the DCPS shall be capable of providing 2000 amps for 30 seconds once every 30 minutes for use in starting aircraft.

2.12.3.3 Ripple voltage. Maximum voltage amplitude on the DCPS output voltage shall not exceed 1.4 volts for no load to full load condition.

2.12.4 Transient output voltage. The DCPS transient output voltage recovery under normal conditions shall be in accordance with MIL-STD-704 Figure13.

2.12.5 Distortion factor. The DCPS distortion factor shall be no greater than 0.035. The DCPS distortion spectrum shall be in accordance with MIL-STD-704 Figure 15.

2.12.6 Overload/overcurrent. The DCPS shall not be tripped or sustain damage during the following overload/overcurrent conditions:

Percent of Full Load	Satisfactory Operating Time
110 Percent	30 Minutes
125 Percent	5 Minutes
300 Percent	6 Seconds

2.12.7 Short circuit. The DCPS shall be protected against short circuit conditions across the output and output cable. Connection to an energized 28.5 volt dc bus shall not cause damage to the DCPS.

2.12.8 Line drop compensation. The DCPS shall provide a ±10% manual voltage adjustment on the operator control panel for output voltage control and to compensate for losses in the output power cable. Automatic Line Drop Compensation (ALDC) shall also be provided. The ALDC shall be adjustable and capable to compensate for not less than 15% line drop. The DCPS shall have a user selectable switch to manually select between the ALDC and manual compensation/voltage adjustment methods.

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2.12.9 Current limiting. The DCPS shall have current limiting capability, controlled by a user selectable switch, for use with the engine starting feature. Current limiting shall be adjustable from 750 to 2000 amps.

2.12.10 Electromagnetic/Radio Frequency interference (EMI/RFI). DCPS EMI and RFI levels shall be compatible with aircraft and avionics systems and shall not cause interference to occur with these systems while the DCPS operating on or near aircraft platforms.

2.12.11 Door interlock. When any access door or panel is opened, the interlock circuitry shall open the 60 Hz input device and DC output device and not allow the input or output device to close. A bypass switch to defeat the interlock circuitry shall be provided for maintenance purposes.

2.13 Human machine interface (HMI). The DCPS shall have the following HMI characteristics:

2.13.1 Control panel. The DCPS shall have a centrally located, easily accessible user control panel. The control panel shall house and contain all controls, meters, switches, indicators, etc. necessary to operate the DCPS. All meters and metering transducers shall provide for better than 2% accuracy and have overload protection.

2.13.1.1 Voltmeter. A voltmeter shall be provided on the DCPS control panel to monitor DC output voltage.

2.13.1.2 Ammeter. An ammeter shall be provided on the DCP S control panel to monitor DC output amperage.

2.13.1.3 Hour meter. A meter shall be provided on the control panel to indicate the total hours of usage on the DCPS.

2.13.1.4 Indicator lights. Lights shall be provided on the DCPS control panel to indicate to the operator that the unit is in the "RUN" mode and the output contactor is "OPEN" or "CLOSED". Note: Lighted switches are also acceptable for this requirement.

2.13.1.5 Start & stop push-button. A start push-button shall be provided on the control panel to operate the internal operations of the DCPS; it shall not close the output control device. A stop push-button shall also be provided to shut off the internal operations of the DCPS.

2.13.1.6 Emergency stop push-button. An emergency stop push-button shall be provided on the control panel to turn off the input and output power and open the output control devices.

2.13.1.7 Push-to-test button. A push-to-test button or switch shall be provided to test the indicating lamps, light emitting diodes, and display panel for the DCPS.

2.13.2 Output contactor. The DCPS shall be equipped with a manual device (push-button operation acceptable), located on the control panel, for opening and closing the output control

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device. This output circuit breaker/contactor shall be opened by the DCPS abnormal alarm conditions and physically isolate the output from the DCPS (open contacts).

2.13.3 System alarm. A lamp or LED to indicate that fault conditions exist shall be provided on the DCPS control panel. This indication shall be latched in the ON position during alarm condition and shall remain ON until the alarm reset push-button is pressed.

2.13.3.1 Alarm annunciator. The DCPS shall be capable of detecting and displaying the following abnormal conditions:

Input Over/Under Voltage	Output Over/Under Voltage
Input Over Current	Output Over Current
Control Logic Failure	Over Temperature

2.13.3.2 Audible alarm. An audible alarm to sound the DCPS alarm condition shall be provided on the control panel.

2.13.3.3 Alarm silence. A push button to silence the DCPS audible alarm shall be provided on the control panel. This device shall not clear the fault or test failure indicators.

2.13.3.4 Alarm reset. The DCPS shall be provided with a device to reset or clear all alarm or test failure indications. This device shall not prevent a fault from being displayed again if it is still valid.

2.13.4 Built-in-test-equipment. The DCPS shall be provided with Built-in-Test-Equipment which will monitor both primary circuits and protective circuits for the unit. All the controls needed to operate or perform manual functions for the Built-in-Test-Equipment features shall also be included.

2.14 Cooling. The DCPS shall have appropriately sized cooling fans to allow the unit to properly function, without damage, continuously under all the conditions stated herein.

2.15 Cooling air flow failure. The DCPS shall contain adequate protection circuitry and controls to protect the internal components and cease operation before overheating damage occurs in the event of a cooling air flow failure or other cooling related faults.

3. REGULATORY REQUIREMENTS.

3.1 Recycled recovered 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. 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). However, used, rebuilt, or refurbished items shall not be provided.

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3.2 Green Procurement Program. Green Procurement Program (GPP) is a mandatory federal acquisition program that focuses on the purchase and use of environmentally preferable products and services. GPP requirements apply to all acquisitions using appropriated funds, including services and new requirements. FAR 23.404(b) applies and states the GPP requires 100% of EPA designated product purchase that are included in the Comprehensive Procurement Guidelines list that contains recovered materials, unless the item cannot be acquired: a) competitively within a reasonable timeframe; b) meet appropriate performance standards, or c) at a reasonable price. The prime contractor is responsible for ensuring that all subcontractors comply with this requirement.

4. PRODUCT CONFORMANCE PROVISIONS.

4.1 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 to the Government or in the commercial market place. The Government reserves the right to require proof of such conformance.

4.2 Aircraft compatibility testing and evaluation. A production DCPS shall be subjected to air craft compatibility testing and evaluation. The testing and evaluation period shall be conducted on site at a US Air Force base within the United States. The full shipping address will be specified in the contract

4.3 Test rejection criteria. Throughout all tests specified herein, the DCPS shall be closely observed for the following conditions, which shall be cause for rejection.

a. Failure to conform to design or performance requirements specified herein or in the contractor's technical proposal.

b. Any spillage or leakage of any liquid, including insulation oil, lubricant, or other fluid, under any condition.

c. Structural failure of any component, including permanent deformation, or evidence of impending failure.

d. Evidence of excessive wear. If excessive wear is suspected, the original equipment manufacturer’s (OEM’s) specifications or tolerances shall be utilized for making a determination.

e. Evidence of corrosion or deterioration.

f. Misalignment of components.

g. Conditions that present a safety hazard to personnel during operation, servicing, or maintenance.

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h. Interference between the DCPS components or between the DCPS, the ground, and all required obstacles, with the exception of normal contact by the tires.

i. Evidence of undesirable mobility characteristics, including instability in handling during cornering, braking, and while traversing all required terrain.

j. Evidence of overheating including shutdown faults from transformer, logic or power electronics overheating under normal conditions described herein.

k. Electromagnetic (EMI) or radio frequency interference (RFI) with aircraft ground operations, communications or with operations of on-board avionics systems.

4.4 Contractor certification. The contractor shall certify and maintain substantiating evidence that the product conforms to the producer's own drawings, specifications, standards, and quality assurance practices, and is the same product offered for sale in the commercial marketplace. The Government reserves the right to require proof of such conformance. Proof of conformance may include, but shall not be limited to, the performance of operational tests, lab tests, modeling and simulation and delivery of reports and data from these tests.

4.5 Responsibility of inspection. Unless otherwise specified in the contract or CID, the contractor is responsible for the performance of all inspection, examination, and test requirements specified herein. Except as otherwise specified in the contract or CID, the contractor may use their own facilities or any other facilities suitable for the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to set forth in this description where such inspections, examinations and tests are deemed necessary to assure supplies and services conform to prescribed requirements.

4.6 Examination of product. Each production DCPS shall be examined to verify compliance with the requirements herein prior to accomplishing any other tests listed in 4.7. A contractor-generated, Government-approved checklist shall be used to identify each requirement not verified by a test or analysis, and shall be used to document the inspection results. Proper operation of each DCPS function shall be verified. Particular attention shall be given to materials, workmanship, dimensions, surface finishes, protective coatings and sealants and their application, welding, fastening, and markings.

4.7 Operational test. Each DCPS shall be operated at rated full load for not less than 15 minutes, after complete assembly and prior to shipment, to ensure all parts are functioning according to the manufacturer's requirements.

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

6. NOTES.

6.1 Source of documents.

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6.1.1 Department of Defense and Federal documents. Department of Defense and Federal documents, except for GOST 10227-86, are available online at https://assist.dla.mil/quicksearch/ or from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094. A copy of GOST 10227-86 can be obtained from the Procuring Contracting Officer (PCO).

6.1.2 FAR. FAR may be obtained from the Superintendent of Documents, P.O. Box 371954, Pittsburgh PA 15250-7954. Electronic copies of the FAR may be obtained from https://www.acquisition.gov/far/index.html .

6.1.3 NFPA documents. NFPA documents may be obtained at www.nfpa.org/index.asp or from National Fire Protection Association 11 Tracy Drive Avon, MA 02322.

6.1.4 NEMA documents. NEMA standards may be obtained at http://www.nema.org/stds or from National Electrical Manufacturers Association, 1300 North 17th Street, Suite 1752, Rosslyn, Virginia 22209

6.1.5 Underwriters Laboratories (UL) documents. UL documents copies may be obtained online at http://ulstandardsinfonet.ul.com/ or from: Underwriters Laboratories, 333 Pfingsten Road, Northbrook, IL 60062-2096.

6.1.6 European Union documents. EU documents may be obtained at http://europa.eu/index_en.htm or from 2 rue Mercier, L-2985, Luxembourg

6.1.7 Institute of Electrical and Electronics Engineers (IEEE) standards products may be obtained at http://www.standards.ieee.org or available from IEEE Operations Center. Phone: (800)678-IEEE. Mail: IEEE Operations Center, Sales Office, 445 Hoes Lane, PO Box 1331, Piscataway, NJ, 08854-4141, USA.

6.1.8 The National Electrical Safety Code (ANSI C2) may be obtained at http://www.webstore.ansi.org or from: ANSI, Attn: Customer Service Department, 25 W 43rd Street, 4th Floor, New York, NY, 10036

6.1.9 The SAE standards may be obtained at http://www.sae.org or from: SAE World Headquarters, 400 Commonwealth Drive, Warrendale, PA 15096.

6.2 Ordering data. The contract or ordering data should specify the following: CID document number, current version and date of CID.

6.3 Definitions.

6.3.1 Common hand tool. A non-powered tool that is likely to be found in a typical mechanic's toolbox. Common hand tools include open end, boxed end, combination, socket (both 6- and 12-point in both standard and deep-well), and hex key wrenches, in SAE sizes up to and including 1-inch and metric sizes up to and including 25-mm; ratchet handles, extensions, and swivels; slotted and Phillips-head screwdrivers; regular and snap-ring pliers; and a ball-peen hammer.

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6.3.2 Special tool. A tool that is not commercially and readily available from a source other than the DCPS contractor.

6.4 Key words.
Generator
Self-contained unit
Solid-State
Stand-alone unit
Transportable

Custodians:
Air Force – 84

Preparing Activity:
Air Force – 84

Reviewers:
Air Force – 99

Agent:
Air Force – 99

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