

INCH-POUND

A-A-59722
26 February 2003

COMMERCIAL ITEM DESCRIPTION

MOBILE POWER UTILITY, TRAILER

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

1.0 SCOPE

1.1 Scope. This commercial item description covers a mobile power unit used to supply electric power, ventilation, compressed air, and water removal for telecommunication and utility installation and maintenance crews in cable vaults and manholes at locations distant from commercial sources of power.

2.0 SALIENT CHARACTERISTICS

2.1 Functional requirements. The mobile power utility trailer shall be suitable for its intended use. Structural elements shall be rigid and possess the requisite strength. Individual components shall be durable, reliable and suited for their intended purpose. The engine generator set, compressors and pump shall be standard commercial products. Service and parts shall be readily available for all components. The unit shall be tow able at 60 MPH along paved highways. It shall have the following approximate dimensions:

Lengths	164 inches max.
Width	76 inches max.
Height	58 inches max. (without exhaust)
	85 inches max. (with exhaust)

Beneficial comments (recommendations, additions, deletions, clarifications, etc.) and any data that may improve this document should be addressed to: WR-ALC/TILCC, 420 Second Street, Suite 100, Robins AFB, GA 31098-1640. By using the Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

AMSC N/A

FSC 4940

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2.1.1 Trailer. The trailer shall be a low profile unit, properly balanced to be handled by one person. The frame shall be all steel capable of supporting all equipment and accessories. The trailer shall have a spring steel suspension. It shall travel on two F78X15, minimum size tires and have a 36 inch adjustable front landing gear with pneumatic tires. It shall have mechanical type parking brakes and hydraulic, fully self-contained, surge type service brakes. A tow bar with lunette conforming to A-A-52464 (3 inch dia. eye and 1 5/8 dia. ring) and safety lights, stop and turn signals. A seven conductor electrical connector shall comply with SAE J 560. An intervehicle jumper cable with plugs conforming to SAE J 560 shall be provided.

2.1.2 Equipment and Storage area. Equipment and accessory storage areas shall be provided. Winged doors on each side of the storage cabinet shall be securable in the open position. All doors shall be lockable with a common key. The storage cabinet shall have a maximum of 21 cubic feet designed storage space with access from either side. The equipment area shall be sufficient to provide for ease of access for full servicing of all equipment and the rear of the control panel. There shall also be storage areas for hoses, platform supports, and extension boards. The floor shall have a sufficient number of drain holes. The storage compartment shall have a DC light.

2.1.3 Control panel. The control panel shall be easily accessible and located at the rear of the unit. It shall be incorporated in the shell of the equipment storage cabinet. It shall have a DC light. It shall have a door to cover all the switches, outlets, gauges and meters. It shall be lockable with the common key. It shall include three 120 VAC, FGI protected duplex receptacles; one 240 VAC, GFI protected receptacle; one DC ammeter, two AC ammeters, one AC voltmeter, an electric hour meter, and circuit breaker on/off switches for each circuit. The rear of the control panel shall provide for easy removal and re-connection of individual components.

2.1.4 Engine generator set. A minimum 7.5 KW, continuous duty, 120/240 VAC, 60 cycle, single phase, AC/DC generator directly connected to a four cycle gasoline engine rated 14 HP at 1800 RPM, water cooled, oil lubricated, electrically started, and designed in accordance with NEMA, AIEE and ASA standards shall be provided. Fuel will be ASTM D 4814 or ASTM D 439 automotive gasoline. The engine shall have low oil pressure and high water temperature safety shut-offs. It shall have a replaceable oil filter and a 12 VDC starting battery, 36 month maintenance free. The set shall be of sufficient quality to average a minimum of 2500 hours of operation between major overhauls. The exhaust system shall have a silencer assembly. An electric engine block heater shall be provided. Two 12 gallon, minimum, fuel tanks with fuel gages shall be secured at the front of the trailer.

2.1.5 Compressors. Dual $\frac{3}{4}$ HP air compressors, oil less type, single stage, drip proof, ball bearing design, shall provide 5 CFM at 100 PSI. They shall be activated by a combination switch-circuit breaker on the control panel. An air pressure switch shall automatically start the primary compressor when pressure in the receiver drops to 80 PSI and stop it when pressure reaches 100 PSI. The secondary compressor shall automatically start when the pressure drops to 75 PSI and stop when pressure reaches 95 PSI. A high pressure line shall have a gauge and regulator assembly adjustable to furnish air from 0 to 100 PSI. A low pressure, dry air line shall contain an air filter and heatless desiccant type dryer. It shall have a gauge and regulator assembly which shall be adjustable to furnish air from 0 to 40 PSI for communications cable pressurization and flash testing. A 12 gallon, minimum, ASME stamped air tank with automatic drain and $\frac{1}{4}$ inch by 25 foot air hose assembly with quick connector shall be provided.

2.1.6. Pump. A two inch submersible pump, 120 VAC, shall provide a 100 GPM pumping rate. It shall be activated by a combination switch-circuit breaker on the control panel. A 2 inch by 25 foot discharge hose with quick connector shall be provided.

2.1.7 Ventilation equipment. A two speed blower shall deliver 1000 CFM free air at high speed for purging and 640 CFM free air at low speed for ventilating. The blower speed switch shall be on the control panel. The blower intake shall be located on the right side of the trailer and away from the engine exhaust. The blower outlet shall allow an eight inch flexible blower hose to be attached. An 8 inch by 20 foot blower hose, with storage provision on the trailer shall be provided. A heat exchanger, incorporated into the blower assembly, shall transfer heat from the engine cooling water to the blower air. It shall be capable of raising the temperature of the air leaving the lower 100 degrees F over the ambient temperature. An electric water pre-heater shall facilitate a supply of arm air prior to the engine reaching sufficient temperature to warm its cooling system. The pre-heater shall work in conjunction with the engine to provide increased heating capability in cold weather. The heater control switches shall be mounted on the control panel.

2.1.8 Accessories. Unit shall include the following:

- a. Light standard adjustable to nine feet. An amber strobe light and two 300 watt (minimum) floodlight assemblies. A bracket shall be mounted inside the cabinet for storing the strobe and floodlight assemblies.
- b. A 12 inch deep manhole rim with air inflatable bladder for sealing and seating with mounting bracket or holder.
- c. A manhole guard rail with holder.

2.1.9 Spare parts. Spare parts to be provided are:

- a. Oil, fuel and air filters, spark plugs, condenser, rotor, and distributor cap.
- b. Two replacement lamps for the flood lights.
- c. One replacement lamp for the strobe light.
- d. One each bulb for the control panel and storage compartment lights.

3.0 REGULATORY REQUIREMENTS.

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3.1 Regulatory requirements. The mobile power utility trailer shall comply with all applicable Federal Motor Carrier Safety Regulations and OSHA Regulations.

4.0 PRODUCT CONFORMANCE PROVISIONS

4.1 Product Conformance. The products provided shall meet the salient characteristics of this Commercial Item Description, conform to the producer's own drawings, specifications, standards and quality assurance practices, and be the same product offered for sale in the commercial marketplace. The Government reserves the right to require proof of such conformance. Minor changes to the design will be considered by the procuring activity provided that significant performance, reliability, durability and safety characteristics of the design are retained.

4.2 Bid Sample. When specified in the contract or purchase order, a bid sample shall be provided for government verification of compliance with the following inspection(s).

4.2.1 Examination. The mobile power utility trailer shall be visually examined to assure that it meets the requirements of this CID.

4.2.2 Performance. The mobile power utility trailer shall demonstrate that it meets the performance requirements of this CID.

5.0 PACKAGING

5.1 Preservation, Packing and Marking. Preservation, packing and marking shall be as specified in the contract or purchase order.

6.0 NOTES

6.1 Source of documents.

6.1.1 Military specifications are available from DAPS, Bldg. 4D (DMP-DODSSP), 700 Robbins Avenue, Philadelphia, PA 19111-5094, or online through the ASSIST.

6.2 Known acceptable products.

NSN	PN	Cage (Manufacturer)
4940-01-449-7705	F-101KG/AF	05KS8 (Team Fenex LTD)
4940-00-997-3172	GPC28AF	27119 (Pelsue)
4940-01-264-2233	1500-10H-AF	00602 (Hesco)

MILITARY INTERESTS:

Custodian:
Air Force 99

Preparing activity:
Air Force 84

Agent:
Air Force 99

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