
DEPARTMENT OF THE ARMY TECHNICAL MANUAL

OPERATOR'S AND ORGANIZATIONAL
MAINTENANCE MANUAL

GENERATOR SET, DIESEL ENGINE: 200 KW, 60 CYCLE, AC,
120/208V, 240/416V, 3 PHASE. CONVERTIBLE FO 167 KW,
50 CYCLE 120/208V, 240/416V, 3 PHASE,
MULTI-PURPOSE, PORTABLE, SKID MOUNTED. (MILITARY
DESIGN MODEL SF-200-MD/CIED) FSN 6115-999-7901

This copy is a reprint which includes current pages from Changes 1 through 3.
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HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 12 January 1968**Operator's and Organizational Maintenance Manual**

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CONVERTIBLE TO 167 KW, 50 CYCLE, 120/208V,
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SKID MOUNTED
(MILITARY DESIGN MODEL SF-200-MD/CIED)
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CHAPTER 1 INTRODUCTION

Section I. GENERAL

1-1. Scope

a. These instructions are published for the use of the personnel to whom the Military Standard Model SF-200-MD/CIED (Allis-Chalmers Model 25000-4444650) generator set is issued. They provide information on the operation and organizational maintenance of the equipment. Also included are descriptions of main units and their functions in relationship to other components.

b. Appendix A contains a list of publications applicable to this manual. Appendix B contains a list of basic issue items authorized the operator of this equipment and the list of maintenance and operating supplies required for initial operation. Appendix C contains the Maintenance allocation chart.

c. DA Form 2028 (Recommended Changes to DA Publications) will be used for reporting discrepancies and recommendations for improving this equipment publication. This form will be filled out by the individual using the manual and forwarded direct to Commanding

General, U. S. Army Mobility Equipment Command, ATTN: AMSME-MP, 4300 Goodfellow Blvd., St. Louis, Mo., 63120.

d. Report all equipment improvement recommendations as prescribed by TM 38-750.

1-2. Record and Report Forms

a. DA Form 2258 (Depreservation Guide of Engineer Equipment).

b. For other record and report forms applicable to operator, crew and organizational maintenance, refer to TM 38-750.

Note. Applicable forms, excluding Standard Form 46, (United States Government Motor Vehicles Operator's Identification Card) which is carried by the operator, will be kept in a canvas bag mounted on the equipment.

Section II. DESCRIPTION AND DATA

1-3. Description

a. *General.* The Military Standard Model SF-200-MD/CIED (Allis-Chalmers Model 25000-4444650) generator set (figs. 1 and 2) is a multi-purpose, portable, skid-mounted, self-contained unit. Each set is equipped with an engine oil pan heating element and other connections for field installation of winterization equipment. The generator set is provided with the controls, instruments, and accessories necessary for operation as a single unit and for operation in parallel with other generator sets. It can be connected to deliver 3 phase, 4 wire, 240 volts line-to-neutral and 416 volts line-to-line (240/416 volts) or 3 phase, 4 wire, 120 volts

line-to-neutral and 208 volts line-to-line (120/208 volts). Engine speed is regulated by an electric governing system.

b. *Engine.* The Allis-Chalmers Model 25,000 engine is a liquid cooled, 6 cylinder, valve-in-head, 4 stroke cycle, turbocharged and intercooled, full diesel engine.

c. *Generator.* The Electric Machinery Model 651853 alternating current generator is a fully enclosed, fan-cooled, revolving field, 3phase alternator. The generator rotor is driven directly by the engine flywheel through a flexible coupling. When driven at its rated speed of 1,800 rpm, the generator will produce 200 KW (kilowatt) at 60 cycles with a