Aviation Ground Equipment Corp.

7000 Series Load Bank

Model 7000-1

Mobile Load Bank (MLB)
A/M24T-17
NSN 4920-01-590-8953

AGEC is producing the next generation of 100% Solid State Mobile Load Banks (MLBs), which are capable of providing resistive, reactive and pulsed load aircraft simulation testing of shipboard and land-based power units.

Standard Features:

- Fully programmable and digital operating, control, and monitoring system
- AC Input: 115 VAC, 400 Hz, 3-Phase, 4 wire, 150 kVA, resistive & reactive loads, overload
- DC Input: 270 VDC, 0-455 ampere (120 kW) resistive loads, overload
- DC Input: 28 VDC, 0-1500 ampere (42 kW) resistive load, overload
- Latest LMCO F-35 requirements for 270 VDC (standard loads/ overloads, simulated start, pulsating loads)
- Ability to run pre-programmed load profiles to simulate aircraft avionic and pulsed loads
- Weather protected input power panel with aircraft receptacle connectors
- Rugged 4-wheel running gear, AS 8090, Type 1, Class 2, Group C

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7000 Series Load Bank

Specifications

Description

AGEC is producing the next generation of 100% Solid State Mobile Load Banks (MLBs), which are capable of providing resistive, reactive and pulsed load aircraft simulation testing of shipboard and land-based power units (MEPPs, MMGs, Frequency Converters, etc.).

The MLB inputs are 115/200 VAC, 3-Phase, 400Hz (150 KVA continuous); 28 VDC (42 kW continuous); and 270 VDC (120 kW continuous).

Input

- 115/200 VAC, 400 Hz, 3-phase, 4 wire load ratings:
  - Maximum load rating for each input of 90 kVA
  - 150 kVA continuous shared total, 1.0 to 0.8 lagging power factor
  - Variable loads in increments of 1 kVA from 0-150 kVA
  - 150% overload for 5 minutes, 200% overload for 5 seconds
  - Ability to shock load
  - Ability to program and save load profiles
  - Ability to run a pre-programmed load profile and to simulate pulsed loads
- 28 VDC load ratings:
  - 0-1500 ampere continuous resistive
  - 150% overload for 5 minutes, 200% overload for 5 seconds
  - Variable loads in increments of 1 kW from 0-42 kW
  - Ability to shock load
  - Ability to program and save load profiles
  - Ability to run a pre-programmed load profile and to simulate pulsed loads
- 270 VDC load ratings:
  - 0-455 ampere continuous resistive
  - 150% overload for 5 minutes, 200% overload for 5 seconds
  - Variable loads in increments of 1 kW from 0-120 kW
  - Ability to shock load
  - Ability to program and save load profiles
  - Ability to run a pre-programmed load profile and to simulate pulsed loads

Environmental

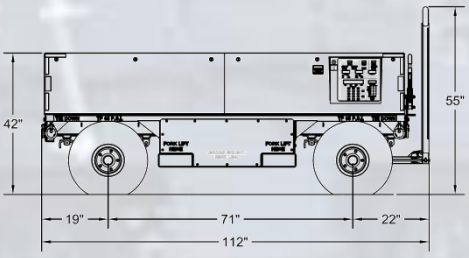
- Temperature, MIL-STD-810G Method 501.5, 502.5 Operating (-25° F to +125°F), Non-Operating (-65° F to +165°F)
- Humidity, MIL-STD-810G, Method 507.5
- Salt Fog, MIL-STD-810G, Method 509.4
- Blowing Rain, MIL-STD-810G, Method 506.5
- Blowing Sand, MIL-STD-810G, Method 510.5
- Wind, MIL-STD-810G, Method 506.11
- Explosive Atmosphere, MIL-STD-810G, Method 511.5
- Vibration, MIL-STD-167-1, Type 1
- Rail Impact, MIL-STD-810G 516.5
- Heavyweight Shock, MIL-STD-901D Grade B
- Air Transportability Compliant
- Tie Down, MIL-T-81259B

Military & Commercial Standards

- MIL-STD-461E
- MIL-STD-464A
- MIL-STD-167-1
- MIL-STD-810G
- MIL-S-901D
- MIL-STD-209
- MIL-STD-889
- MIL-STD-1472
- SAE AS-50881
- SAE AS-8090
- MIL-STD-167
- MIL-S-8512
- MIL-STD-130
- MIL-STD-882

Dimensions & Weight

- Dimensions 42”H X 57”W X 112”L
- Weight 4000 Lbs.



Protection & Monitoring

- Input
  - Over/Under Voltage
  - Over/Under Frequency
  - Overload (See Input Section)
  - Phase Loss
- AC Input
  - Over/Under Voltage
  - Over/Under Frequency
  - Overload (See Overload Section)
  - Short Circuit
  - Load Imbalance
- DC Inputs (28 VDC & 270 VDC)
  - Over/Under Voltage
  - Overload (See Overload Section)
  - Short Circuit
  - Excessive Ripple Detection
- Internal
  - Door Interlock
  - Cooling Loss/Over Temperature
  - Contactors Stuck (Open/Closed)
  - Internal Power Supply Voltage
  - Resistors and Reactors
  - Solid State Devices

Controls / Indicators

- Smart Control User Interface
- Integrated Built-In Test (BIT)
- Remote Data Acquisition Service Tool (USB)
- Front Control Panel
  - Fault Code Display with Indicators
  - Adjustable Brightness Indicator Lamps with ON/OFF
  - LED Display Input/Output
    - Voltage
    - Amperage
    - Frequency
  - EF Interlock Status Indicators
  - Emergency Stop Switch
- Door Interlock Switch
- Elapsed Time Hour Meter

Maintenance

- Minimal Preventative Maintenance Required
- Mean Time to Repair: (MTTR) = <180 minutes

Specifications subject to change without notice

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