

INTEGRATED TRAILER-ECU-GENERATOR (ITEG)



TAMCN: B0018

ID: 11490A

NSN: 2330-01-556-9648

Functional Description

The Integrated Trailer-Environmental Control Unit (ECU), Generator (ITEG) is an integrated HMMWV-towable unit that is designed to support highly mobile command and control systems and other forward-deployed operations centers and activities that displace often and have limited access to external power sources. The generator produces 22kW of electrical power (maximum of 9 kW for external use) and can parallel with other ITEG units and the MEP-805B Tactical Quiet Generator. The ECU provides complete environmental air conditioning including cooling, heating, ventilation, and filtering and has a nominal cooling capacity of 120,000 BTU/hr and a nominal heating capacity of 47,000 BTU/hr. The integral trailer is based on the standard M1102 trailer chassis designed with high ground clearance and run flat tires.

Technical Description

Unit

Manufacturer: GDC4S
 Model: ITEG (Spiral 1)

Fuel

Fuel Capacity (Gal): 19.7
 Fuel Consumption (GPH): 2.5
 Fuel Requirement: Diesel/JP-5/JP-8

Generator

Frequency (Hz): 60
 Voltage (Volts): 208
 Phase: 3
 Wires: 4-Wire
 Max Power: 22kW
 Export Power: 9kW

Dimensions

Length (in): 169
 Width (in): 86.6
 Height (in): 77.5
 Weight (lb):
 Dry: 3485
 Wet: 3910
 Volume (ft³): 657

ECU

Cooling (BTU/hr): 120,000
 Heating (BTU/hr): 47,000
 Duct Size: (2) 12 inch for supply
 (1) 18 inch for return

Capacity

Refrigerant: R-22 or R-407c
 Max. Ambient Temperature: 131°F
 Min. Ambient Cooling: +75°F
 Min. Ambient Heating: -24°F

Trailer

Gross Weight Max: 4200 lbs
 Available Payload: 290 lbs.

Transportability

Towable by HMMWV, certified helo liftable.