

Deutz TBD620V12 Engines and Ancillaries



Deutz TBD620V12 Diesel Power Module

Originally built by Stewart and Stevenson in 2001. This ISO transportable power generation module is designed for today's demanding operations with increased reliability.

Four-cycle diesel engines provide efficient and environmentally friendly power. Coupled with the ultra-reliable Marathon Magnamax generator, this module promises years of trouble-free operation. Heavy-duty sound attenuated ISO containers and simple control layouts ensure quiet and simple operation.

Safety, reliability, and maintainability are key ingredients of this power modules design. Decades of experience with both commercial and military diesel powered products ensure practical and efficient products. Standard features, such as large access doors, remote lube oil drains, and maintenance-free batteries, ensure ease of service.

Standard Features:

- * Rated Output 1500kW Standby or 1350kW Continuous
- * ISO Standard 40' High Cube container
- * Isochronous, parallel load sharing or parallel baseload operation
- * Critical-grade exhaust silencer
- * Fuel Cooler
- * Remote connections for Day Tanks
- * Waste Oil sump pump, 24VDC
- * Engine-mounted Battery charging alternator and 24VDC, 10amp static battery charger
- * Low fuel level alarm
- * Large-capacity, on-board fuel system (UL listed)
- * High ambient, heavy-duty cooling system with modulating capacity control system
- * Sound-attenuating acoustic insulation with perforated metal sheathing
- * Duplex fuel filtration with water separator
- * Sealed, maintenance-free 8D batteries with battery disconnect switch
- * Lockable access doors
- * Oversized power connection with lockable hinged cover and easily accessible customer interfaces
- * Full service history and manuals



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Specifications

Model RS1500D Power Generation Module

Complete Unit

Manufacturer Stewart & Stevenson
Houston, Texas

Engine

Manufacturer Deutz DDC
Type Diesel, 4-cycle Diesel, 4-Cycle
Model TBD620 Series 4000
Number of Cylinders V-12 V-12
Bore 6.7 inches (170mm) 6.5 inches (165mm)
Stroke 7.7 inches (195mm) 7.5 inches (190mm)
Displacement 53.1 liters 48.75 liters
Speed(Rated) 1800 rpm 1800 rpm
Governor Woodward ProAct II DDEC
Starting Motor 24VDC 24VDC
Alternator 24VDC, 55A, belt-driven 24VDC, 55A, belt-driven

Generator

Manufacturer Marathon
Type Brushless, single bearing
Model Magnamax 743RSL4050
Insulation NEMA Class H
Temperature Rise (standby) 130°C
Temperature Rise (prime) 105°C
Exciter PMG
Voltage Regulator Digital DVR2000C

Engine Controls

Digital Engine/Generator Controller Basler DGC2000
Protection for Low Oil Pressure
High Coolant Temperature
Engine Overspeed
Large Backlit LCD Display English or Metric Values
UL Recognized CSA Certified

Generator Controls

Automatic Synchronizing module Woodward SPM-A
Load Sharing module Woodward LSM
Load Control module Woodward AGLC
Generator Circuit Breaker General Electric Power Break II
Generator Protective Relay Basler BE3-GPR
Three-phase RMS sensing Microprocessor-based
Wide trip range and reset adjustments UL and CSA Certified

Weights and Dimensions

Length 40 feet
Width 8 feet
Height 9.5 feet
Weight 47,500 lbs(dry) / 50,500 lbs(transport)
Fuel Tank Capacity 1250 gallons

Specifications are subject to change without notice or obligation for continuous improvement.

Instrumentation

AC Voltmeter (3-phase)
AC Ammeter (3-phase)
AC Frequency Meter
Synchronization Scope and
Lights
Engine Speed
Engine Oil Pressure
Engine Coolant Temperature
Main Breaker Status Lights

Remote Capabilities

Remote Start/Stop input
Remote Breaker Trip input
Remote Emergency Stop input
Remote Status Outputs
(7 functions)
Communications Port

Options

ISO trailer chassis
Cable storage boxes
Extended Warranty
Preventive Maintenance
Agreement

