

DETROIT DIESEL



DDC/MTU 12V-2000 Marine Pleasure Craft 1480 BHP



Specifications

Engine	DDC/MTU 12V-2000
Engine Model	R1227K12
Port	R1227K13
Starboard	R1227K13
Gross Power	1480 BHP (1500 mHP) @ 2300 RPM 1104 kW @ 2300 RPM
Shaft Power	1436 SHP (1456 mHP) @ 2300 RPM 1071 kW @ 2300
Description	Turbocharged-Aftercooled
Number of Cylinders	12
Bore and Stroke	5.12 in x 5.91 in (130 mm x 150 mm)
Displacement	1458 cu in (24 liters)
Compression Ratio	13.5 to 1
Fluid Capacity, Coolant	137 qt
Lube Oil	84 qt
Control	DDEC
Weight (dry) w/o Gear	5640 lbs (2558 kg)
Weight (dry) w/Std Gear	7110 lbs (3225 kg)

Performance

DDEC electronic control system manages both the fuel and air systems for maximum output, low smoke and precise control

Split circuit cooling provides maximum charge air cooling for top end performance while minimizing white smoke at low ambient

Triple wall exhaust manifolds retain maximum heat for turbocharger performance together with low surface temperatures for a pleasant engine room environment

Individually calibrated electronic unit injector pumps for optimum combustion characteristics at all RPM's

Four valve cylinder heads for high output turbocharged engine performance

Sequential turbochargers for outstanding acceleration

Powertuned performance – All Series 2000 engines produce their rated power. The power you buy is the power you get.

Reliability and Durability

Pilot Installation Description assures proper engine installation

Individual cylinder heads reduce thermal stress and ensure long compression seal life

Splattered main and rod bearings for high load capacity and long life

Modular titanium heat exchanger for long life and easy cleaning

High capacity oil pump and three oil galleries for maximum piston cooling and bearing life

Endurance tested in heavy-duty commercial applications

Three hour production dyno test including oil analysis

On board commissioning inspection

Five-year limited warranty

Built and tested in the USA

Comfort and Convenience

Outstanding fuel economy for extended range and safety

Extended oil change intervals

Clean engine room with closed breather system

No zincs to replace

Optional Custom Care Maintenance to handle all routine service requirements

Half engine idle for rapid warm-up and minimized white smoke

Smooth, vibration free cruising with DDC's engine isolating mount system

Owner/Captain/Crew training available at a number of locations

1-877-DDC-BOAT for Admiralty Service 365 days a year

True worldwide parts and service support

Transferable warranties

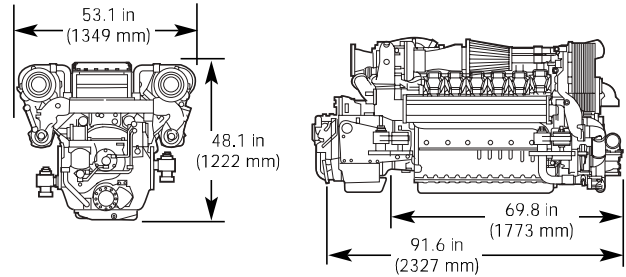
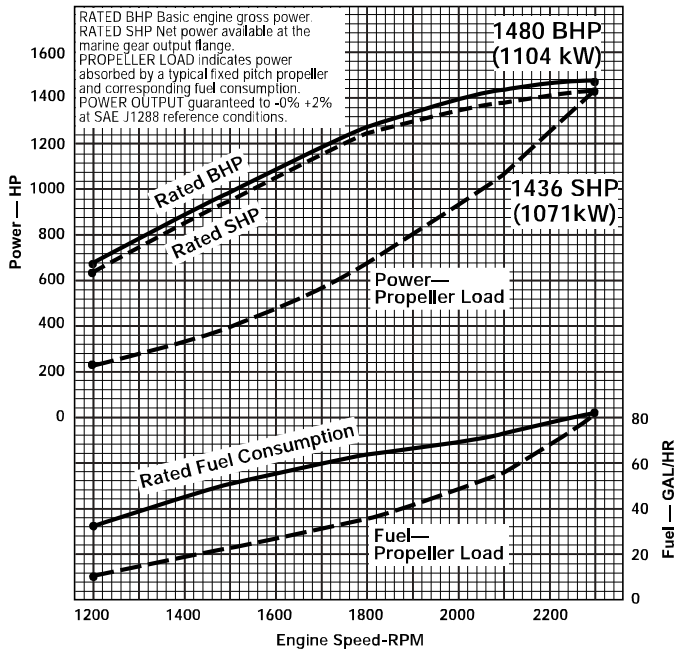
Certification

Complies with MARPOL 73/78 Annex VI NO_x Limits

Fully Supported by Detroit Diesel Professional Marine Network

For a complete listing of standard and optional equipment, consult your authorized Detroit Diesel Corporation representative. Photograph represents a typical marine engine

12V-2000 Marine Maximum Performance



Rating Explanation

MARINE MAXIMUM The Marine Maximum rating applies to high performance applications where speed is important and overall load factors are low. Maximum continuous cruising RPM is 2100, and the use of full rated power should be limited to 10% (average) of operating time. This rating is normally reserved for privately-owned yachts in non-revenue applications.

Consult your authorized Detroit Diesel Corporation representative for the rating that will apply to your vessel.

All dimensions are approximate. For complete dimensional information, refer to installation drawing provided by your authorized Detroit Diesel Corporation representative.

Standard Equipment

Main Engine - Sequential and wastegate turbocharging; watercooled exhaust components; flywheel housing size SAE #1; two part polyurethane Glacier white paint and chrome valve covers

Fuel System - Electronic unit pump injection system; duplex secondary fuel filters mounted on front of engine

Engine Oil System - Dual oil filters mounted on engine with diverter valve

Engine Cooling System - Titanium plate modular heat exchanger system with integral fuel cooler; gear driven self-priming raw water pump with 4" inlet; engine block heater (120V/2000W); coolant recovery bottle

Air Inlet System - Dual intake air filters with silencers; 24V air shutdown valve

Electrical - Starter: 24V, 2-pole isolated ground; Alternator: 24V/100 amp, 2-pole isolated ground, belt driven

Engine Mounting - DDC engine and marine gear mounts with isolators

Exhaust Connection System - (2) Horizontal dry outlet flanges

Marine Gear - DDC vertical offset marine gear; direct connected with torsional coupling; gear oil cooler in raw water circuit

Optional Equipment

Fuel System - Double wall fuel lines for society classification; Sea Pro 511 primary fuel filter/water separator with electric priming pump

Engine Lube System - Remote mount lube oil filters

Air Inlet System - Mechanical actuated air flap

Exhaust Connection System -
 (2) Vertical dry flange elbows
 (2) Bellows

Accessory Drives - SAE A or B rear of front gear train
 SAE A rear of flywheel housing

Transmission Accessory Options -
 Trolling Valve
 Trailing Pump
 Live or Clutchable C Pad PTO

Custom Care Maintenance

For a complete listing of standard and optional equipment, consult your authorized Detroit Diesel Corporation representative.

Detroit Diesel 24 Hour Marine Distributor Locator 1-877-DDC-BOAT

DETROIT DIESEL
 CORPORATION



13400 Outer Drive, West, Detroit, Michigan 48239-4001
 Telephone 313-592-5000
 www.detroitdiesel.com

