

Standard features

- Water cooled diesel engine
- Water cooled generator
- Brushless, AC alternator
- Four-point mounting system with vibration isolator mounts
- Coaxial alternator-driven salt water pump
- Water-jacketed water injection exhaust elbow
- Air intake silencer
- Oil filter
- Fuel filter/Water separator
- Battery charging DC alternator 180 W output
- Electric starter
- Oil drain with hose extension

Control system

- Unit mounted, drip-proof, vibration isolated console

Digital Control Unit 12V with:

- Start-run-stop switch
- Manual reset fault relay indicating engine shutdown for:
 - High engine temperature
 - High exhaust temperature
 - Low oil pressure
- Hourmeter
- Plug-in for optional remote panel kit
- Line standard AC circuit breaker

Gen-set performance

Operating Environment:

- max air ambient temperature: 40°C – 104°F
- sea water temperature: 38°C – 100.4°F

Maximum operating angle:

- 25° in any direction, continuous

Frequency Regulation:

- 3Hz (5%) no load to rated load.
Recovery to stable operation is 3 seconds on application or removal of rated load in one step.

Rating details

- Mini 40 R50 – 50 Hz (3000 rpm)
 - 1-phase 4-wire
 - 115-115/230V 14A output power
 - Continuous duty: 3.5kW at 1.0 PF
- Mini 40 R60 – 60 Hz (3600 rpm)
 - 1-phase 4-wire
 - 120-120/240V 16A output power
 - Continuous duty: 3.8kW at 1.0 PF

kW
3.5
50 Hz

kW
3.8
60 Hz



Alternator details

- Design: Dynamica brushless, revolving field – 2 pole alternator, drip-proof, rigidly coupled to engine through the flywheel
- Insulating system: class F
- Voltage regulation: self-regulated through capacitor
1-phase – 50 Hz ± 5%
- Cooling: water cooling system

Preliminary

Dis. 077607

Marine Generator Set – Dynamica Mini 40

Data are subject to change without prior notice

Engine features

- Engine: Farymann
- Model: 18W
- Design: 4-cycle water-cooled diesel
- Cylinders: 1 vertical
- Bore: 85 mm 3.23 in.
- Stroke: 55 mm 2.17 in.
- Displacement: 290 cm³ – 17.7 in³
- Compression ratio: 20 : 1
- Fuel consumption:
 - 3000 rpm: 0.284 Kg/kWh – 0.206 Kg/HPH
 - 3600 rpm: 0.245 Kg/kWh – 0.177 Kg/HPH
- Lube oil capacity: 1.25 L (1.32 U.S.qts)
- Power (max):
 - 3000 rpm – 4.3 kW continuous
 - 3600 rpm – 4.8 kW continuous
 - 3000 rpm – 4.7 kW Intermittent
 - 3600 rpm – 5.8 kW Intermittent
- Starting system: remote 12V, 3 wire negative grounds
- Cooling system: direct water cooled system, salt water pump self priming 1.5m lift
- Lubrication system: pressure, trochoid pump, low oil pressure switch
- Fuel system: electric fuel lift pump
- Back pressure: max allowed exhaust pressure 475 mm H₂O

DYNAMICA MARINE GENSETS MINI 40

Standard features

- Sound shield
- Sound level: 57 dB(A) at 3 m
- Dimensions: inches 23.6x16.7x19.7 (mm 660x425x500)
- Weight with sound shield: 212 pounds (96 Kg)
- Waterlift muffler
- Fully functional remote panel, battery condition

