

Standard features

- Water cooled diesel engine
- Water cooled generator
- Brushless, AC alternator
- Three-point mounting system with vibration isolator mounts
- Direct gear-driven salt water pump
- Integral heat exchanger and water-cooled exhaust
- Water-jacketed water injection exhaust elbow
- Air intake silencer
- Oil filter
- Fuel filter/Water separator
- Battery charging DC alternator 150 W output
- Removable lifting bracket
- Electric starter with glow plug preheat
- Oil drain with hose extension
- Coolant recovery system

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 80 – 50 Hz (3000 rpm)
 - 1-phase 4-wire
 - 115-115/230V 30A output power
 - Continuous duty: 7kW at 1.0 PF
- Mini 80 – 60 Hz (3600 rpm)
 - 1-phase 4-wire
 - 120-120/240V 33A output power
 - Continuous duty: 8.0kW at 1.0 PF

kW
7.0
50 Hz

kW
8.0
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. 067226

Marine Generator Set – Dynamica Mini 80
Data are subject to change without prior notice

Engine features

- Engine: Perkins
- Model: 402C-05
- Design: 4-cycle water-cooled diesel
- Cylinders: 2 vertical
- Bore: 67 mm 2.64 in.
- Stroke: 72 mm 2.83 in.
- Displacement: 507 cm³ –31 in³
- Compression ratio: 23.5 : 1
- Fuel consumption:
 - 3000 rpm: 0.275 Kg/kWh – 0.199 Kg/HPh
 - 3600 rpm: 0.295 Kg/kWh – 0.214 Kg/HPh
- Lube oil capacity: 2.1 L (2.22 U.S.qts)
- Coolant capacity: 2.6 L
- Power (max):
 - 3000 rpm – SAE NET Continuous kW 9.2
 - 3600 rpm – SAE NET Continuous kW 10.2
- Starting system: remote 12V, 3 wire negative grounds
- Cooling system: heat exchanger raw water cooled, salt water pump self priming 1.5m lift
- Lubrication system: gear pump-lube oil indicator, low oil pressure switch
- Fuel system: electric fuel lift pump
- Back pressure: max allowed exhaust pressure 1000 mm H₂O

DYNAMICA MARINE GENSETS MINI 80

Standard features

- Sound shield
- Sound level: 57 dB(A) at 3 m
- Dimensions: inches 27.1 x17.7x23.6 (mm 690x450x600)
- Weight with sound shield: 372 pounds (169 Kg)
- Waterlift muffler
- Fully functional remote panel, battery condition

