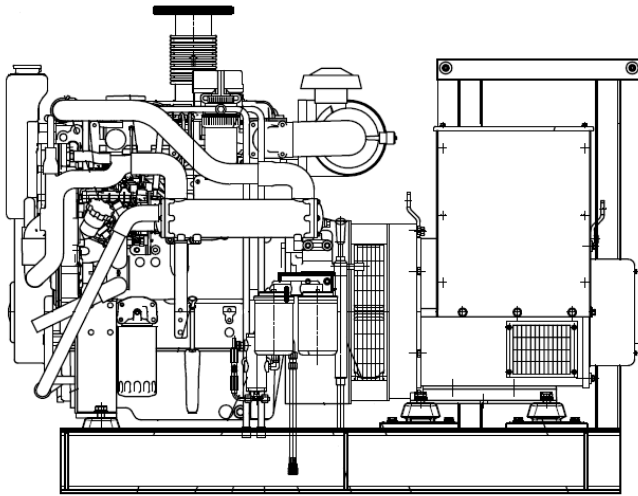


Gensets of RIGAS DIZELIS DG make, based on PERKINS-SABRE marine engines

RIGAS DIZELIS DG marine gensets based on PERKINS-SABRE engines have been designed and developed to operate in diverse sea conditions.

Certification by all major classification authorities is available.



### Description & Key Scope

- Common bed frame, manufactured of electro welded steel profiles
- Control panel (on genset frame)
- Vibration isolators between generating set and base frame
- Keel or heat exchanger cooling system
- Engine heater
- 24V starter, engine-driven charging alternator
- Flexible compensator and silencer
- Alternator anti-condensation heater
- Drawing & Manual package
- Factory Test Report
- Factory Quality Certificates
- Certificates from major IACS members are available

Genset model	PRP*, kWe	Fuel consumption (100% load), l/h	Genset model	PRP*, kWe	Fuel consumption (100% load), l/h	Length**, cm	Width**, cm	Height**, cm	Weight**, kg
50 Hz, 400 V, 1500 rpm			60 Hz, 440 V, 1800 rpm						
EM38PS	38	11.4	6EM45PS	45	13.5	164	96	120	910
EM46PS	46	13.6	6EM52PS	52	15.4	171	96	120	940

\*\* final dimensions and weight dependent on selected options

### Description & Key Scope

\*Prime Power rated in accordance with ISO 3046-1 in ambient conditions of 45°C and 100kPa.

For continuous operation and unlimited yearly operation at varying load. Max. mean load factor of 70% of rated power over 24h of operation. 1 hour/12 hours period of accumulated peak overload to 110%.

## Engine General Data\*

Maker	PERKINS
Model	4.4TGM
No of cylinders	4 in-line
Working principle	4-stroke
Displacement, L	4.4
Bore x stroke, mm	105 x 127
Compression ratio	19.3:1
Aspiration	Turbocharged
Rotation (seen from flywheel end)	Counter clockwise
Flywheel	SAE 11,5"
Injection system type	Direct injection
Governor type	Electronic
Oil capacity	8.5 liters
Starter type	2-pole, 24V, DC

\* Other engine parameters are available on request.

## Alternator General Data\*\*

Maker	STAMFORD (CUMMINS) LEROY-SOMER (other brands on request)
Poles	4
Cos φ	0.8
Coupling	Direct
Insulation class	H
Temperature Rise class	F/H
Execution	Brushless
Standard protection	IP23

\*\* Other alternator parameters are available on request.

## Available Key Options (other options are available on request)

### Engine

- Radiator cooling system (for Emergency / Harbour gensets)
- Manual or electric lub oil drain pump
- Starting batteries
- Static battery charger
- Air, spring or hydraulic starter
- Duplex oil and fuel filters
- Electronic governor

### Alternator

- Winding temperature measuring
- Quadrature droop kit for parallel operation
- Air filter
- IP44 protection

### Control

- Remote control panel
- Potentiometers for remote engine speed and alternator voltage regulation

### Other

- Installation in soundproof and weathertight canopy or container
- Special tools and spare parts
- Commissioning and start-up
- Extended warranty



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