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.
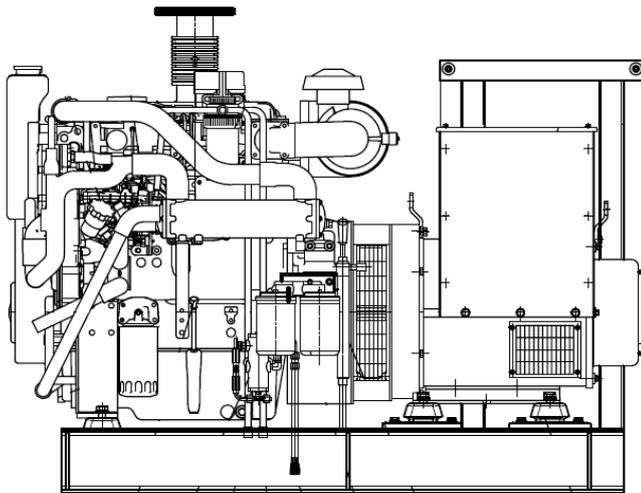
Description & Key Scope

- 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						
EM52PS	52	14.9	6EM63PS	63	18.1	171	89	146	1045
EM62PS	62	17.7	6EM70PS	70	20.0	171	89	146	1070

** 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	4.4TWGM
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, air to water cooled
Rotation (seen from flywheel end)	Counter clockwise
Flywheel	SAE 11,5"
Injection system type	Direct injection
Governor type	Electronic
Oil capacity	15 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
- ➢ Bearing 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

RĪGAS DĪZELIS

ANNO 1949