

POWER HOUSE MARINE GENSET

PHS6R

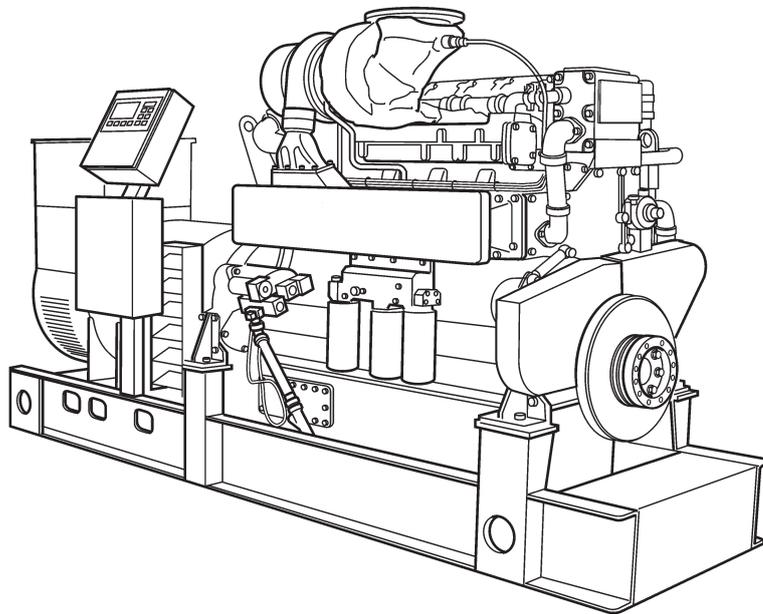
647 kVA (518kWe) / 1500 rpm 50 Hz. 753 kVA (603 kWe) / 1800 rpm 60 Hz

Technical Data

Engine brand Mitsubishi
Engine designation S6R-Z3MPTAW
No. of cylinders and configuration in-line 6
Method of operation 4-stroke,
. direct-injected, turbocharged
. diesel engine with aftercooler
Bore, mm 170
Stroke, mm 180
Displacement, l 24.51
Compression ratio 14:1
Crankshaft Power HE Cooling
at 1500 rpm, kW (hp) 545 (741)
at 1800 rpm, kW (hp) 635 (864)
Crankshaft Power KC Cooling
at 1500 rpm, kW (hp) 515 (700)
at 1800 rpm, kW (hp) 595 (809)
Recommended fuel to conform to
. ASTM No. 2-D
Specific fuel consumption best point,
g/kWh at 1500 rpm 204 (100%)
g/kWh at 1800 rpm 208 (100%)

All data represent net performance with standard accessories such as fuel injection pump, water pump, L.O. pump and charging alternator under the conditions of 100kPa (750mm Hg), barometric pressure 300K (27°C) ambient temperature and 60% relative humidity.

The engine is certified acc. to IMO NOx, stage 2.



Power House Auxiliary sets

The Power House Auxiliary Sets are the complete solution for a ship's on-board power requirements. You will not only get reliable marine diesels, well-matched generators and a monitoring system, but also a wide range of products and services to optimize your investment.

Each genset is built in the factory fully adapted to the customer's requirements and comes complete and tested, ready for installation onboard. The basis for the genset is the smooth running and reliable marine diesel engines. Compact in design, they occupy less space in the engine room, and their good accessibility makes service and maintenance easy.

All the gensets are type approved by the major classification societies, and can be delivered under complete certification.

Engine

The Mitsubishi engines are well balanced and have excellent emission performance, meeting all present and coming emission regulations, including IMO stage 2 and CCNR.

Mitsubishi's basic design in combination with Woodward governor and a modern electronic control system gives superior load acceptance and synchronizing capabilities, meeting all standards with good margin.

Generator

All the standard Gensets are equipped with a generator built by Newage Stamford. Stamford is the market leader in this power range and provides for worldwide service coverage. These generators are of a long proven design, based on years of experience of power generation for land-based and marine applications.

Warranty and service

Power House in Sweden is a global distributor for Marine Auxiliary Sets. Qualified Power House dealers stand by for service and support, including installation support and commissioning. A complete set of documentation will be delivered with the set according to the demand from operator and shipyard. Power House offers 24h service as well as a web-based parts ordering system, which secures around-the clock parts availability.

Taylor-made service agreements can be established, which secures total cost control for the operator.

PHS6R

Technical description

Complete Genset

- High system efficiency as a result of system optimization of the complete Genset
- All used components of highest quality from well reputed suppliers
- Reinforced set dimensioned for high output and low sound level
- Mono-block engine/generator rigidly mounted on a common bed frame
- Engine directly coupled to generator via a flexible coupling
- Flexible mountings including welding plates mounted under the frame
- Full protection of rotating parts will be provided

Engine

- Flywheel housing with connection acc. to SAE 0
- Flywheel (18")
- Engine brackets

Lubrication system

- Freshwater-cooled oil cooler
- Spin-on type oil filters with change over valve
- Spin-on type oil by-pass filter

Fuel system

- Woodward electronic or hydraulic governing systems
- Jacketed fuel pipes
- Spin-on type fuel filters of change over type
- 24V fuel shut-off valve, electrically operated

Inlet air and exhaust system

- Non-cooled turbocharger
- Air inlet filter/silencer
- Fresh water cooled charge air cooler. (on MPTA models)

Other equipment

- Front P.T.O. pulley (2x B groove)
- Front safety cover

Generator

- Temperature rise class H, ambient temp. 50 degr. C
- Anti condensation heating
- Droop kit

- Stator winding as standard with short 2/3 pitch winding, ideal for non-linear load (thyristor load)
- 4-pole, brushless, AC marine generator
- Dynamically balanced rotor
- Automatic Voltage Regulator (AVR) for accurate Voltage regulation
- Permanent magnet mounted on generator for independent power supply to AVR
- Permanent magnet system to obtain hard performance on motor start and to deliver stationary short circuit current
- Heavy damper cage for parallel operation and very low subtransient reactance values
- Double bearing generator as standard
- IP23 enclosure as standard
- Voltage available range up to 690V

Optional equipment

- Twin fuel filters/water separator with change over valve
- Flexible exhaust compensator, dry
- Raw/sea water circulation pump
- Cooling water connection bellows
- Electrical or air starting systems
- Engine cooling water heater 230V or 400 V
- Pre-lube oilpump combined with heater

Heat Exchanger cooled system (HE)

- For seawater- and central-cooled Gensets
- Plate heat exchanger with integrated expansion tank

Radiator cooled system (RC)

- For air-cooled Gensets
- V-belt-driven radiator fan

Keel cooled system (KC)

- 2-circuit keel cooling system for keel- or box coolers

ComAp Classified control and monitoring system

- Alarm and monitoring functions according to classification
- Optional functions on request
- Modbus
- Configurable inputs and outputs
- RPU-Shutdown unit, includes all shutdown functions required by classification societies

Generator

- Air inlet louvres/filters according to IP44
- Thermistors (1 or 2 per phase) mounted in generator for temperature measurement of windings in generator
- PT100 elements (1 or 2 per phase) mounted in generator for temperature measurement of windings in generator
- Single bearing generator
- PT100 elements mounted in generator bearings for temperature measurement
- Water cooled generator

Miscellaneous

- Flexible exhaust compensator
- Dry exhaust silencer with or without spark arrestor
- Synchronizer unit
- Load sharing unit
- Toolkit
- Spare parts according to classification recommendations

Contact your local dealer for further information.

Not all models, standard equipment and accessories are available in all countries. All specifications are subject to change without notice.

The Genset illustrated may not be entirely identical to production standard Gensets.

Technical data HE-KC Genset

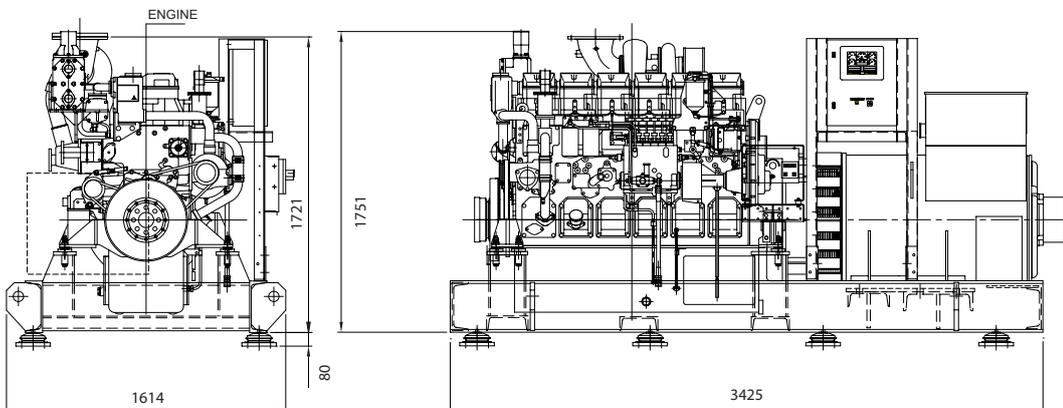
647 kVA (518kWe) / 1500 rpm 50 Hz
753 kVA (603kWe) / 1800 rpm 60 Hz
Dimensions L x W x H, mm, not for installation

PHS6R-Z3MPTAW3474x1231 x 1850

Dry weight, complete set. 5300 kg

Generator HCM 634 G2

All data represent net performance with standard accessories such as fuel injection pump, water pump, L.O. pump and charging alternator under the conditions of 100kPa (750 mm Hg), barometric pressure 300K (27° C) ambient temperature and 60% relative humidity.



This drawing is not for installation.

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Dealer