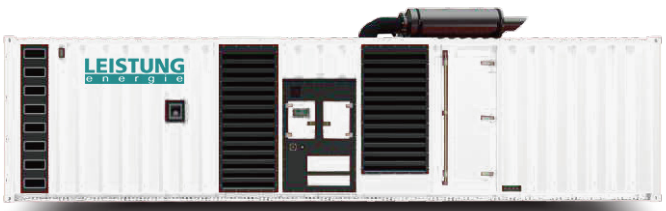
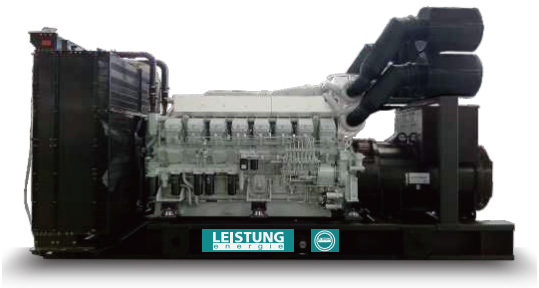
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Model: MS1915D5

Powered by MHI Engine





Generator Specification

Service	PRP(1)	ESP(2)
Power (kVA)	1750	1915
Power (kW)	1400	1532
Rated speed (r.p.m)	1500	
Standard voltage (V)	400/230 V	
Rated at power factor(cos phi)	0.8	

AGG Power gensets are compliant with ISO 9001 and CE standard, which include the following directives:

- 2006/42/EC Machinery safety.
- 2006/95/EC Low voltage
- EN 60204-1: 2006+A1: 2009, EN ISO 12100: 2010, EN ISO 13849-1: 2008, EN 12601 : 2010

(1) PRP (Prime Power):

According to ISO8528-1, prime power is the maximum power available during a variable power sequence, which may be run for an unlimited number of hours per year, between stated maintenance intervals. The permissible average power output during at 24 hours period shall not exceed 80% of the prime power. 10% overload available for governing purposes only.

(2) ESP (Standby Power):

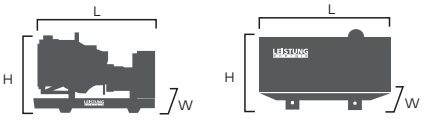
According to ISO 8528-1, It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. No overload capability is available.

Powers	ESP		PRP		Standby
Voltage (V)	KVA	KW	KVA	KW	Amps
415/240	1915	1532	1750	1400	2664.2
400/230	1915	1532	1750	1400	2764.1
380/220	1915	1532	1750	1400	2909.6

Performance Data		
Model		MS1915D5
Engine brand		Shanghai MHI Enegine
Engine model		S16R-PTA-C
Speed control type		Electronic
Phase		3
Control system		Digital
Starter motor voltage		24 V
Frequency		50 HZ
Engine speed (RPM)		1500
Fuel Consumption (L/H)	100% standby power	375
	100% prime power	342
	75% prime power	260
	50% prime power	183

Standard reference Conditions

Note: Standard reference condition 25°C[77°F] air inlet temp, 100m(328ft) A.S.L 30% relative humidity. Fuel consumption dat with diesel fuel with specific gravity of 0.85 and conforming to BS 2869: 1998, Class A2



Dimension and Weight		
Dimension	Open	Silent
Length (L)	5470mm	12192mm
Width (W)	2205mm	2438mm
Height (H)	2810mm	2896mm
Net Weight	REQ	REQ
Fuel Tank (L)	Option	Option

Note: This parameters allows for some acceptable deviations.

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Engine Specification: S16R-PTA-C

Basic technical data	
No. of cylinders	16
Cylinder arrangement	V
Cycle	4 stroke
Induction system	TBD
Compression ratio	14.0:1
Bore	170mm
Stroke	180mm
Displacement	65.37L
Firing order	1-9-6-14-2-10-4-12-8-16-3-11-7-15-5-13
Approximate engine weight	6750kg

Cooling system	
Fan	Pusher type, Aluminum casting blade
Engine	1905mm. diameter
Radiator	Mounted on radiator frame
Piping	Belt drive with tension pulley
Total	Fan speed ratio i = 0.566
Water pump	Gear drive centrifugal type
Capacity of water pump	1650 L/min
Thermostat	Wax pellet type x 4pcs
	Open at 71-85 °C
weight (DRY)	Approx. 1610kg
Radiation area	
Inter cooler side	223. 8
Radiator side	613 .4

Fuel system	
Fuel inlet pipings	Flexible hose (Rc 3/4 joint)
Fuel return pipings	Flexible hose (Rc 3/4 joint)
Injection pump	Bosch type "PS8" without timer
Feed pump	Piston type with priming pump
Injection Nozzle	Hole type 0.325mm x 10 holes
Fuel filter	Paper element cartrige type

Air intake system	
Air cleaner	Donaldson FTG15L x 4 pcs
Turbocharger	Mitsubishi type TD type
Air cooler	Plated element type
Air heater	Not supply

Lubrication system	
Oil pump	Gear pump type
Capacity of oil pump	480L/min
Lub. oil pressure at main gallery	0.5-0.65Mpa
Quantity of oi:l	
Oil pan full level	200L
Low level	140L
Others	30L
Total	230L
Lub. oil filter (full flow)	20 μ
Lub oil filter (By-pass flow)	2 μ
Lub oil cooler	Water cooled corrugated type

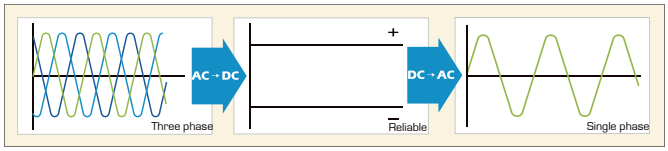
Control system	
Governor	Electronic speed governor
Actuator	DC24
Controller	XS-400B-03
Potentiometer	Not supply
Potentiometer	Not supply
Connector	Loose supply
Magnetic pick up	With connector
Cable	Loose supply

Starting system	Prime power
Starter switch	With key , with heat position
Starting motor	DC24V, 7.5KW x 2 pcs
Safety relay	Loose supply
Current of starter	Rush 1250A
	Cranking 400A
Alternator	With voltage regulator
Recommended battery capacity	DC24V, 400AH

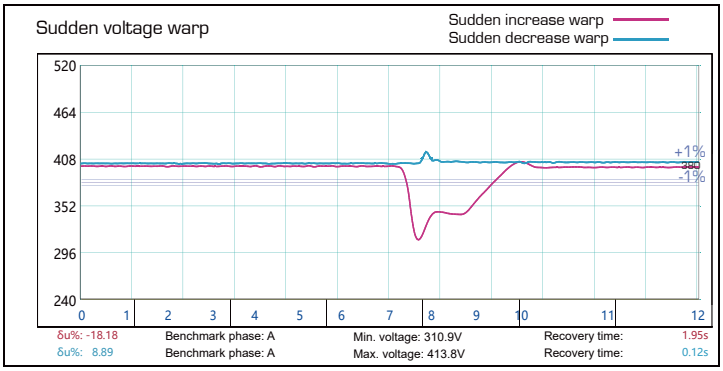
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Alternator Specification

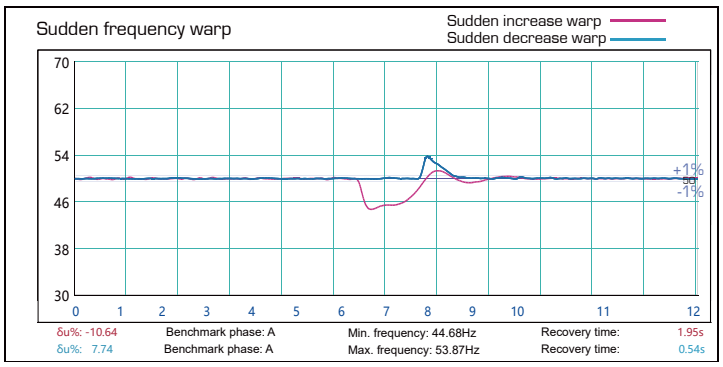
Alternator	
Number of phase	3
Power factor (Cos Phi)	0.8
Poles	4
Winding Connections (standard)	Star-serie
Terminals	12
Insulation type	H class
Winding Pitch	2/3
IP rating	IP23
Excitation system	Self-excited
Bearing	Single bearing
Coating	Vacuum impregnation
Voltage regulator	A.V.R
Couping	Flexible disc



Emergency voltage curve



Emergency frequency curve



Options

Engine	Alternator	Generator Sets	Fuel System
▪ Water Jacket Pre-heater ▪ Fuel heater	▪ Winding Temp measuring Instrument ▪ Alternator Pre-heater ▪ PMG ▪ Anti-damp and anti-corrosion treatment ▪ Anti-condensation heater ▪ Winding and bearing RTD	▪ Tools with the machine ▪ Extended range fuel tank ▪ Bunded fuel tank	▪ Low fuel level alarm ▪ Automatic fuel feeding system ▪ Fuel T-valves
Canopy	**Lub oil system**	**Cooling System**	**Control Panel**
▪ Rental type Canopy ▪ Trailer	▪ Oil Pre-heater ▪ Oil temp sensor	▪ Front heat protection	▪ Remote control panel ▪ ATS ▪ Synchronizing controller ▪ Adjustable earth leakage relay

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Control Panel

Configuration

- Emergency stop button
- Protection MCB
- Battery charger
- Integrated aviation plug
- ATS connection
- Digital control module

Features

- 3 phase generator set monitoring
- Support of engines equipped with electronic control unit
- Comprehensive diagnostic message
- Automatic or manual start/stop of the gensets
- Push buttons for simple control, lamp test
- Graphic back-lit LCD display
- Parameters adjustable via keyboard or PC
- Mains measurements（50HZ/60HZ）
- Generator measurements（50HZ/60HZ）
- Comprehensive shutdown or warning on fault condition
- 3 phase Generator protections
  - Over-/under voltage
  - Over-/under frequency
  - Current/voltage asymmetry
  - Over current/overload
- 3 phase AMF function
  - Over-/under frequency
  - Over-/under voltage
  - Voltage asymmetry
- Configurable analog inputs
- Battery voltage, engine speed (pick-up) measurement
- Configurable programmable binary inputs and outputs
- Warm-up and cooling functions
- Generator C.B. and Mains C.B. control with feedback and return timer
- RS232 interface
- Modem communication support
- Hours counter
- Sealed to Ip65
- Event log

Benefits

- Less wiring and components
- Integrated solution
- Less engineering and programming
- User friendly set-up and button layout
- Module can be configured to suit individual applications
- PC software for simplified configuration
- Wide range of communication capabilities

Operation conditions

- Operation temp: -20 ℃ to + 70 ℃
- Storage temp: -30 ℃ to + 80 ℃
- Operating humidity: 95% w/o condensation
- Vibration : 5-25Hz, ±1.6mm
  5-100Hz, a=4g
- Shocks: a= 500m/s²

Options

- Ethernet interface (Remote monitoring and control)
- GSM modem/wireless internet (Remote monitoring and control)
- RS232-RS485 Dual port interface
- Synchronizing control panel
- Distribution board with sockets kit and power busbar
- Battery trickle charge ammeter
- Earth leakage protection
- Earth fault protection
- Low fuel level alarm
- Low fuel level shutdown
- High fuel level alarm
- Fuel transfer system control
- Low coolant level shutdown
- High lube oil temp shutdown
- Overload via alarm switch on breaker
- Engine coolant heater controls
- Control panel heater
- Speed adjust switch
- Oil temp displayed on LCD screen
- Additional 8 inputs and outputs

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