

Model: MS1540D5

Powered by MHI Engine





Generator Specification

Service F	P RP (1)	ESP (2)
Power (kVA) 1	400	1540
Power (kW) 1	120	1232
Rated speed (r.p.m)	1500	
Standard voltage (V)	400/23	ΟV
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):

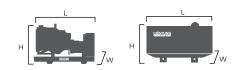
According to ISO 8528-1, It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures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

Powers	ES	Р	PRI	Р	Standby
Voltage (V)	KVA	KW	KVA	кw	Amps
415/240	1540	1232	1400	1120	2142.5
400/230	1540	1232	1400	1120	2222.9
380/220	1540	1232	1400	1120	2339.9

Performan	ce Data	
	Model	MS1540D5
Er	igine brand	Shanghai MHI Enegine
Er	gine model	S12R-PTA2-C
Spee	d control type	Electronic
Phase		3
Cor	ntrol system	Digital
Starte	r motor voltage	24 V
F	requency	50 HZ
Engin	e speed (RPM)	1500
	100% standby power	311
Fuel	100% prime power	280
Consumption	75% prime power	211
(L/H)	50% prime power	150

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)	4580mm	6058mm
Width (VV)	2205mm	2438mm
Height (H)	2510mm	2896mm
Net Weight	-	-
Fuel Tank (L)	Option	Option

Note: This parameters allows for some acceptable deviations.

Engine Specification: S12R-PTA2-C

Basic technical data	
No. of cylinders	12
Cylinder arrangement	V
Cycle	4 stroke
Induction system	TBD
Compression ratio	13.5:1
Bore	170mm
Stroke	180mm
Displacement	49.03L
Firing order	1-12-5-8-3-10-6-7-2-11-4-9
Approximate engine wei	ght 5400kg

Cooling system	
Capacity coolant	
Engine	TBD
Radiator	TBD
Piping	TBD
Total	TBD
Water pump	Gear drive centrifugal type
Capacity of water pump	1500min-1, 1650 L/min
Thermostat	Wax pellet type
	Open at 71-85 °C
Fan	Pusher type steel fan
Radiation area	
Inter cooler inside	TBD
Radiator side	TBD

Fuel system

Fuel inlet pipings	Flexible hose (Rc ¾ joint)
Fuel return pipings	Flexible hose (Rc ¾ joint)
Injection pump	Bosch type "PS6" without timer
Feed pump	Piston type with priming pump
Injection Nozzle	Hole type 0.31mm x 10 holes
Fuel filter	Paper element cartrige type

Air intake system	1
Air cleaner	Donaldson EGB20 x 2 pcs
Turbocharger	Mitsubishi type TD13L-48QRC(47)
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	150L
Low level	110L
Others	30L
Total	180L
Lub. oil filter (full flow)	20 µ
Lub oil filter (By-pass flow) 2μ
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

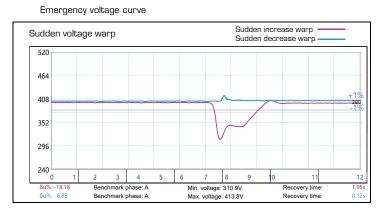
Starting system	Prime power
Starter switch	With key , with heat position
Starting motor	DC24V, 7.5KW
Safety relay	Loose supply
Current of starter	Rush 1250A
	Cranking 400A
Alternator	With voltage regulator
Recommended battery cap	acity DC24V, 400AH



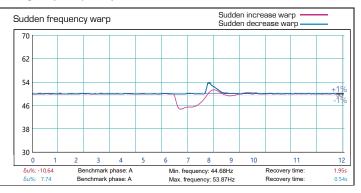
Alternator Specification

Alternator	
Number of phase	3
Power factor (Cos Phi)	0.8
Poles	4
Winding Connections (standar	d) 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 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 CanopyTrailer	Oil Pre-heaterOil temp sensor	 Front heat protection 	 Remote control panel ATS Synchronizing controller Adjustable earth leakage relay



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



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All information in the document is substantially correct a the time of printing but may be subsequently altered by the company.

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 °C to + 70 °C
- 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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