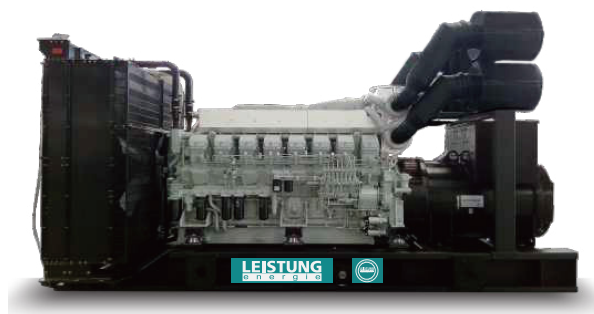


■ Model: MS715D5

Powered by MHI Engine



■ Generator Specification

Service	PRP ₍₁₎	ESR ₍₂₎
Power (kVA)	650	715
Power (kW)	520	572
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 Voltage (V)	ESP KVA	ESP KW	PRP KVA	PRP KW	Standby Amps
415/240	715	572	650	520	994.7
400/230	715	572	650	520	1032.0
380/220	715	572	650	520	1086.4

Performance Data

Model	MS715D5	
Engine brand	Shanghai MHI Enegine	
Engine model	S6R2-PTA-C	
Speed control type	Electronic	
Phase	3	
Control system	Digital	
Starter motor voltage	12/24 V	
Frequency	50 HZ	
Engine speed (RPM)	1500	
Fuel Consumption (L/H)	100% standby power	152
	100% prime power	136
	75% prime power	104
	50% prime power	75

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)	3560mm	6058mm
Width (W)	1420mm	2438mm
Height (H)	2020mm	2591mm
Net Weight	REQ	REQ
Fuel Tank (L)	Option	Option

Note: This parameters allows for some acceptable deviations.

■ Engine Specification: S6R2-PTA-C

Basic technical data

No. of cylinders	6
Cylinder arrangement	L
Cycle	4cycle stroke
Induction system	TBD
Compression ratio	14.0:1
Bore	170mm
Stroke	220mm
Displacement	29.96L
Firing order	1-5-3-6-2-4
Approximate engine weight	2900kg

Cooling system

Water pump	Belt drive centrifugal type
Capacity of water pump	1500min-1, 820 L/min
Thermostat	Wax pellet type x 2pcs Open at 71-85 °C
Fan	Pusher type steel fan 1010 diameter Fan speed ratio i = 0.806

Fuel system

Fuel inlet pipings	Rubber hose joint
Fuel return pipings	Rubber hose joint
Injection pump	Bosch type "PS6" without timer
Feed pump	Piston type with priming pump
Injection Nozzle	Hole type 0.325mm x 10 holes
Fuel filter	Paper element cartridge type X2

Air intake system

Air cleaner	Donaldson FTG13L x 2 pcs
Turbocharger	Mitsubishi type TD15-50B(54)
Air cooler	Plated element type
Air heater	Not supply

Lubrication system

Oil pump	Gear pump type
Capacity of oil pump	270L/min
Lub. oil pressure at main gallery	0.5-0.65Mpa
Quantity of oil	
Oil pan full level	84L
Low level	52L
Others	10L
Total	94L
Lub. oil filter (full flow)	20μ
Lub oil filter (By-pass flow)	2μ
Lub oil cooler	Water cooled corrugated fin 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 700A Cranking 370A
Alternator	With voltage regulator
Recommended battery capacity	DC24V, 250AH

■ 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
<ul style="list-style-type: none"> Water Jacket Pre-heater Fuel heater 	<ul style="list-style-type: none"> Winding Temp measuring Instrument Alternator Pre-heater PMG Anti-damp and anti-corrosion treatment Anti-condensation heater Winding and bearing RTD 	<ul style="list-style-type: none"> Tools with the machine Extended range fuel tank Bunded fuel tank 	<ul style="list-style-type: none"> Low fuel level alarm Automatic fuel feeding system Fuel T-valves
Canopy	Lub oil system	Cooling System	Control Panel
<ul style="list-style-type: none"> Rental type Canopy Trailer 	<ul style="list-style-type: none"> Oil Pre-heater Oil temp sensor 	<ul style="list-style-type: none"> Front heat protection 	<ul style="list-style-type: none"> Remote control panel ATS Synchronizing controller Adjustable earth leakage relay

■ 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 °C to + 70 °C
- Storage temp: -30 °C to + 80 °C
- Operating humidity: 95% w/o condensation
- Vibration : 5-25Hz, $\pm 1.6\text{mm}$
5-100Hz, $a=4g$
- Shocks: $a= 500\text{m/s}^2$

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