• Model: MS715D5

Powered by Shanghai MHI Engine





■ Generator Specification

Service	PRP(1)	ESP ₍₂₎
Power (kVA)	650	715
Power (kW)	520	572
Rated speed (r.p.m)	150	0
Standard voltage (V)	400/2	30V
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):

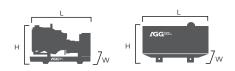
According to ISO 8528-1, It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures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

Powers	ES	P	PF	RP	Standby
Voltage (V)	KVA	KW	KVA	KW	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
Er	igine brand	Shanghai MHI Engine
En	gine model	S6R2-PTA-C
Spee	d control type	Electronic
Phase		3
Control system		Digital
Starter motor voltage		12/24V
Frequency		50HZ
Engine speed (RPM)		1500
	100% standby power	152
Fuel	100% prime power	136
Consumption	75% prime power	104
(L/H)	50% prime power	75

Standard reference Conditions

Note: Standard reference condition $25\,^\circ\!\!\!\!\mathrm{C}$ (77 $^\circ\!\!\!\mathrm{F}$) air inlet temp, 100m(328ft) A.S.L 30% relative humidity. Fuel consumption dat with diesel fuel with specific gravity of $0.85\ \mathrm{and}$ 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	



■ 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
·	

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 oi:I	
Oil pan full level	84L
Low level	52L
Others	10L
Total	94L
Lub. oil filter (full flow)	20 µ
Lub oil filter (By-pass flow	') 2 μ
Lub oil cooler	Water cooled corrugated fin typ

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 $^{\circ}\mathrm{C}$	
Fan Push	n Pusher type steel fan 1010 diameter	
	Fan speed ratio i = 0.806	

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

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 cartrige type X2

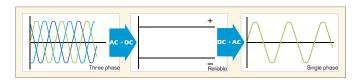
Starting system	Prime power
Starter switch	With key , with heat position
Starting motor	DC24V, 7.5KW
Safety relay	Loose supply
Current of starter	Rush 700A
	Cranking 370A
Alternator	With voltage regulator
Recommended battery ca	apacity DC24V, 250AH

13L x 2 pcs
D15-50B(54)
ent type
pply

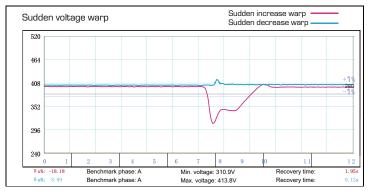


Alternator Specification

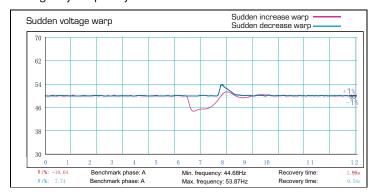
Alternator	
Number of phase	3
Power factor (Cos Phi)	0.8
Poles	4
Winding Connections (standard)	Star-serie
Terminals	12
Insulation type	H class
Winding Pitch	2/3
IP rating	IP23
Excitation system	Self-excited
Bearing	Single bearing
Coating Va	acuum impregnation
Voltage regulator	A.V.R
Couping	Flexible 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 CanopyTrailer	Oil Pre-heaterOil temp sensor	Front heat protection	 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 $^{\circ}$ C to + 70 $^{\circ}$ C
- Storage temp: -30 °C to + 80 °C
- Operating humidity: 95% w/o condensation
- Vibration: 5-25Hz, ± 1.6 mm
 - 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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