

Model: MS825D5

Powered by Shanghai MHI Engine





Generator Specification

Service I	P RP (1)	ESP(2)
Power (kVA)	750	825
Power (kW)	600	660
Rated speed (r.p.m)	150	
Standard voltage (V)	400/	230V
Rated at power factor(cos phi)	Ο.	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):

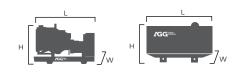
According to ISO 8528-1, It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures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

Powers	ES	\$P	PF	₹P	Standby
Voltage (V)	KVA	KW	KVA	KW	Amps
415/240	825	660	750	600	1147.8
400/230	825	660	750	600	1190.8
380/220	825	660	750	600	1253.5

Performanc	e Data	
	Model	MS825D5
Er	igine brand	Shanghai MHI Engine
Er	igine model	S6R2-PTAA-C
Spee	d control type	Electronic
	Phase	3
Сог	ntrol system	Digital
Starte	r motor voltage	24V
F	requency	50HZ
Engin	e speed (RPM)	1500
	100% standby power	175
Fuel	100% prime power	157
Consumption	75% prime power	119
(L/H)	50% prime power	82

Standard reference Conditions

Note: Standard reference condition 25 $^\circ$ (77 $^{\rm F}$) 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 V	Veight	
Dimension	Open	Silent
Length (L)	4080mm	6058mm
Width (W)	1715mm	2438mm
Height (H)	1985mm	2591mm
Net Weight	REQ	REQ
Fuel Tank (L)	Option	Option



Engine Specification: S6R2-PTAA-C

Basic technical data	
No. of cylinders	6
Cylinder arrangement	L
Cycle	4 stroke
Induction system	Tarbocharged with inter cooler
Compression ratio	14.1:1
Bore	170mm
Stroke	220mm
Displacement	29.96L
Firing order	1-5-3-6-2-4
Approximate engine wei	ght 2850kg

Cooling system	
Capacity coolant	
Engine	55L
Radiator	80L
Piping	3L
Total	138L
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 $^\circ C$
Fan	Pusher type steel fan
Radiation area	
Inter cooler inside	46.64cm ²
Radiator side	154.29m²

Fuel system

Fuel inlet pipings	Flexible hose (Rc ½ joint)
Fuel return pipings	Flexible hose (Rc ½ 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

Donaldson EGB 15 x 2 pcs
Mitsubishi type TF15L-60QV(49
Plated element type
Not supply

Lubrication system	
Oil pump	Gear pump type
Capacity of oil pump	270L/min
Lub. oil pressure at mai	n 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 flo	w) 2 μ
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

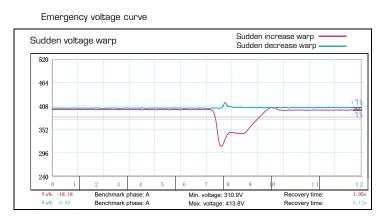
Starting system	Prime power
Starter switch	With key , with heat position
Starting motor	DC24V, 7.5KW
Safety relay	Loose supply
Current of starter	Rush 700A
	Cranking 370A
Alternator	With voltage regulator
Recommended battery cap	acity DC24V, 250AH



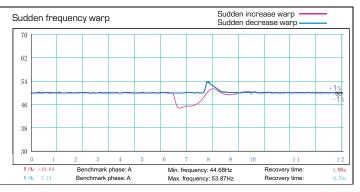
Alternator Specification

3 0.8 4 Star-serie
4) Star-serie
) Star-serie
12
H class
2/3
IP23
Self-excited
Single bearing
acuum impregnation
A.V.R
Flexible disc





Emergency frequency curve



Options

Engine	Alternator	Generator Sets	Fuel System
Water Jacket Pre-heaterFuel 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



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



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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, ± 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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