

AOSIF Doosan Series

AD63 Technical Data

AOSIF
POWER GENERATOR



Doosan Power Generator

58KVA/46KW



XIAMEN AOSIF ENGINEERING LTD.

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Powered by**Doosan DB58****58KVA at 50Hz, 400V****General feature:**

- ◆ Assembled by Doosan diesel engine and Leroy Somer alternator.
- ◆ Three filters as standard, fuel and water separator as optional.
- ◆ Radiator and fan with safety guard.
- ◆ Single bearing alternator IP 23, Insulation Class H.
- ◆ Heavy duty steel as base frame and 8hrs operation base fuel tank.
- ◆ Automatic control panel and 3 poles circuit breaker, internal cable.
- ◆ 12V or 24V battery, battery wires.
- ◆ Battery charger and float battery charger as standard supply scope.
- ◆ Optional soundproof canopy, ATS, synchronization panel, movable trailers.

Genset Main Technical Data:

Genset Model	AD63
Prime Power(50HZ)	46KW/58KVA
Standby Power(50HZ)	51KW/63KVA
Frequency/Speed	50Hz/1500rpm
Standard Voltage	230V/400V
Phases	Three phases, four wires
Manufacturer	Xiamen AOSIF Engineering LTD.

(1) PRP: Prime Power is available for an unlimited number of annual operating hours in variable load applications, in accordance with ISO8528-1. A 10% overload capability is available for a period of 1 hour within 12-hour period of operation. In accordance with ISO 3046-1.

(2) ESP: The Standby Power Rating is applicable for supplying emergency power in variable load applications for up to 200 hours per year in accordance with ISO8528-1. Overload is not allowed.

Doosan Engine Data:

Manufacturer	Doosan Infracore Co.,Ltd.
Model	DB58
Engine speed	1500rpm
Engine power	
-----Standby power	59kw
-----Prime power	54kw
Type	In-line 4 cycle, water cooled, 6 cylinder
Aspiration	Naturally aspirated
Bore * Stroke	102*118 mm
Cubic capacity	5.785 L
Compression ratio	17.5:1

Fuel Consumption:

Load	Type of operation and application
	l/hr
Standby	15.3
75% Standby	11.7
50% Standby	8.8
25% Standby	5.9

Lubrication system:

○ Lub. Method	Fully forced pressure feed type
○ Oil pump	Gear type driven by crankshaft
○ Oil filter	Full flow, cartridge type
○ Oil Pan capacity	High level 19 liters (5.016 gal.) Low level 16 liters (4.224 gal.)
○ Angularity limit	Front down 25 deg., Front up 25 deg. , Side to side 30 deg.

Fuel system:

○ Injection pump	Zexel in-line "A" type
○ Governor	RSV type (all speed control)
○ Feed pump	Mechanical type
○ Injection nozzle	Multi hole type
○ Opening pressure	185 kg/cm ² (2,631 psi)
○ Fuel filter	Full flow, cartridge type with water drain valve.
○ Used fuel	Diesel fuel oil

Cooling system:

○ Cooling method	Fresh water forced circulation
○ Water capacity	12 liters (3.17 gal.)
○ Pressure system	Max. 0.9 kg/cm ² (12.8 psi)
○ Water pump	Centrifugal type driven by belt
○ Water pump Capacity	-
○ Thermostat Type and Range	Wax – pellet type Opening temp. 82°C Full open temp. 95°C
○ Cooling fan	Blower type, plastic 520 mm diameter, 6 blade

Electric system:

○ Charging Alternator	24V x 45A alternator
○ Voltage regulator	Built-in type IC regulator
○ Battery Voltage	24V
○ starting motor	24V x 4.5kW


ALTERNATOR Specifications:

Manufacturer	Leroy-somer Electro-technique (Fuzhou) Company Ltd.
Model	LSA42.3L9
Output power	48KW
AVR model	R220
Number of phase	3
Power factor (Cos Phi)	0.8
Altitude	≤ 1000 m
Overspeed	2250RPM
Number of Pole	4
Exciter type	shunt
Insulation class	H
Voltage regulation	±0.5%
Total harmonics (TGH/THC)	< 4 %
Wave form : NEMA = TIF	< 50
Wave form : I.E.C. = THF	< 2%
Bearing	single

ALTERNATOR GENERAL DATA:

- ◆ Operate either 50Hz or 60Hz.
- ◆ Standard enclosure IP23, but IP44, IP55 for option
- ◆ Insulation class H.
- ◆ Shunt excitataion systems.
- ◆ AREP or PMG system for options.
- ◆ Automatic voltage regulator
- ◆ Single bearing alternator
- ◆ Stator grease insulation covered
- ◆ Rotator and excitation high polymer
- ◆ Resist the corruption oil and acid
- ◆ Rotator balance is in accordance with BS5625 standard 12.5
- ◆ High-quality lubrication sealed long-time bearing
- ◆ Rotator silicon steel close tight

AOSIF Circuit breaker specification:

	Manufacturer	Delixi group
	Brand	Delixi
	Model	CDM1-100L/3300-100
	Capacity	100amp

AOSIF Starting Battery specification:

	Battery Voltage	12V
	Battery Capacity	80aH
	Quantity	2 pcs
	Battery type	Free maintenance, sealed lead-acid type

Control system:



Deepsea 6120

Auto start and stop control panel



Deepsea 6120 is an auto mains failure controller for single generator, it can monitor and protect the generator working all the time. it has a LCD display which clearly shows the status of the engine. this controller include seven inputs and six outputs. This controller can also be programmed using the frong panel or by using DSE configuration Suite PC software.

Parameters:

This controller can provide Generator frequency, Under/over speed, Generator volts, Generator current, Engine oil pressure, Engine coolant temperature, Flexible fuel level, Hours run counter, Battery volts, Fail to start/stop, Emergency Stop. Failed to reach loading voltage/frequency, Charge fail, Loss of magnetic pick-up signal, Low DC voltage, CAN diagnostics and CAN fail/error, Mains volts 3 phase, Mains frequency, AMF indications

Protection:

- ◆Low Oil Pressure
- ◆High water Temperature
- ◆High voltage and low voltage
- ◆Overspeed

- ◆Volt adjuster and frequency adjuster.
- ◆Emergency stop
- ◆Fail to start

Features:

- ◆Protection: Automatic start/stop, load transfer and alarming of generator;
- ◆CAN and magnetic pick-up versions.
- ◆PC and front panel configurable
- ◆4 digital inputs and 3 analogue inputs.
- ◆6 outputs(4 configurable on magnetic pick-up, 6 configurable on Canbus version).
- ◆3 phase generator and mains voltage monitoring.
- ◆remote start on or off load.
- ◆advanced metering capability.
- ◆test button.
- ◆protected solid state outputs.
- ◆transfer between mains and generator power.
- ◆user-friendly set-up and button layout.
- ◆multiple engine parameters are monitored simultaneously.
- ◆module can be configured to suit individual applications.
- ◆IP 65 rating offers advanced resistance to water ingress when gasket is fitted.

- ① Power switch
- ② Lamp switch
- ③ Power indicator
- ④ Operation buttons
- ⑤ LCD display



Open type



Silent type

AOSIF Soundproof Enclosure Specification:

AOSIF silent generator is designed by professional acoustic engineers based on 12 years experience.

- ★ multi-way air intake and exhaust guarantee the power performance of the generator.
- ★ large-scale impedance combined type silencer effectively reduce noise of the generator.
- ★ internal high performance rubber damper and flexible materials reduce vibration.
- ★ Base mounted fuel tank supports the generator running for 8 hours.

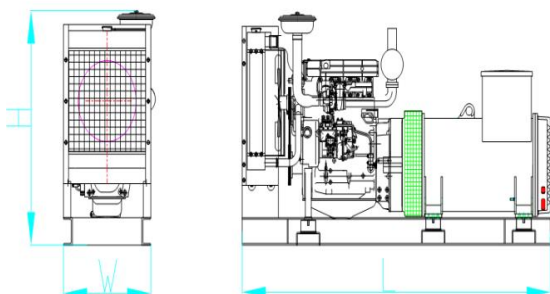


- ★ Cold steel materials of the canopy.
- ★ Best powder paint.
- ★ Zinc plated and Corrosion resistance.
- ★ Elegant appearance and reliable quality.
- ★ Stainless steel locks and hinges.
- ★ Access to all weather conditions.
- ★ Fireproof, waterproof and dustproof.
- ★ High quality soundproof materials could efficiently reduce noise.
- ★ Big base fuel tank in the frame guarantee sufficient diesel supply.
- ★ 180° revolvable and disassemble door for easy maintenance.
- ★ Concave lockable access door for easy operation and indefectible.
- ★ Lights inside of the canopy for maintenance.

- ★ Transparent viewing window make the control panel clear at a glance.
- ★ Emergency stop button mounted on the canopy exterior for urgency.
- ★ Cooling fluid injection hole is kept on the ceiling crust.
- ★ Pipe of lube oil and cooling fluid is mounted on the bottom of generator for easy let.
- ★ Fuel fill and battery can easy be accessed by lockable door.
- ★ Cooling fan and battery are fully guarded.
- ★ Heat insulation of exhaust smoke system inside the canopy.
- ★ Forkman slot is for choice.
- ★ Lifting ear is mounted in the base frame.

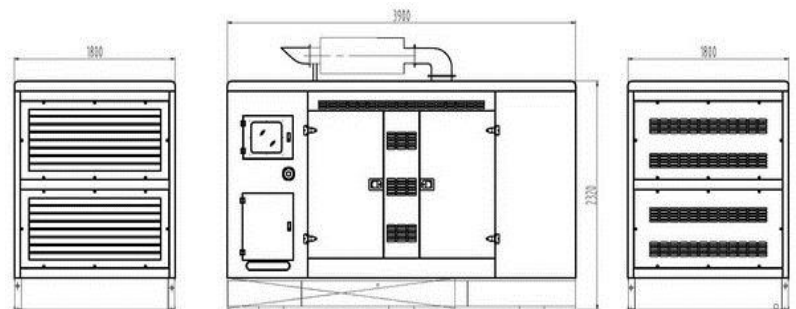
Weight and Dimensions

1. Open Version:



Open Type (Standard Configuration)
Overall Size: 2100×800 × 1400mm(L*W*H)
Weight: 1100kg

2. Soundproof Version:



Soundproof Type
Overall size: 2850× 1000× 1800mm(L*W*H)
Weight: 1700kg

Supply scope

1. Standard supply scope:



⑦ Exhaust silencer



⑧ Starting battery



⑨ Float battery charger



⑩ Flange



- ① Auto Control Panel
- ② Main Circuit Breaker
- ③ Cooling Radiator
- ④ Base Frame
- ⑤ Filter
- ⑥ Starting Motor

2. Optional supply scope:



① ATS



② fuel and water



③ Auto Fuel Pump



④ External daily fuel tank



⑤ ABB Breaker



⑥ Synchronization System



⑦ Lub oil heater



⑧ Elec. coolant Heater



⑨ Oil drain Pump



⑩ Trailer & Silent Canopy

Our Sales Promises

- ★ AOSIF Engineering provides a full line of brand new and high quality products. Each and every unit is strictly factory tested before shipment.
- ★ Quality Warranty is according to our standard conditions: 12 months from BL date or 1,000 running hours, whichever comes first.
- ★ Service and parts are available from XIAMEN AOSIF Engineering Ltd. or distributors in your location.
- ★ All the products from Xiamen AOSIF Engineering Ltd. is CE marked.



Specifications are subject to change without notice.

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