

SDG125LX-5B1N-DSE DIESEL GENERATOR WITH ELECTRONIC CONTROLLER

AIRMAN

Airman generators have long been the trusted workhorse for construction, rental, and mining, thanks to their renowned Japanese quality, clean-burning engines, smart design, and exceptional fuel capacity.

The new range takes it up a notch with the integration of Deepsea's leading electronic controller. The high-spec 7310MKII handles manual or auto-start applications with ease, making Airman ideal for diverse power needs – from building standby to rental fleets, construction sites, hybrid setups, agriculture, mining, mobile workshops, and industrial power.

In Australia, CAPS Australia proudly distributes Airman, providing comprehensive service, parts, and technical support.



Specifications

Standby power	110kVA
	88kW
	158.8A
Prime power	100kVA
	80kW
	144A
Voltage (V)	400
Fuel Tank Capacity (L)	750
Run time @75% load (Hrs)	42
Sound (dBA @ 7m)	60
Weight (dry / wet)	2020kg / 2680kg
Dimensions LWH (mm)	2530×1150×1760
Frequency (Hz)	50
Phases	3

**Standby 110kVA
Prime 100kVA**

**Proven durability in
Australian climate
Fuel efficient
Low noise**



**Deep Sea Electronics auto
controller, allowing for both
manual and automatic operation**

Standard features

- Low emission Japanese Stage 3 engine
- Extra large long run fuel tank
- 4P Breaker
- Deepsea DSE7310MKII controller
- Pre-wired for auto start
- Electronic governor
- Double walled chassis (bundled)
- Continuous duty rated alternator
- Low fuel warning
- Cable connection bar
- Glow plugs for fast starting
- Earth leakage relay
- Lifting point

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Weatherproof canopy features

- Exceptionally Quiet sound insulated canopy
- Automotive grade door seals
- Lift off (removable) doors for easy access
- Fully Lockable
- Access panel to clean radiator
- Convenient access cover in enclosure for topping up radiator coolant.
- Durable powder coating on cabinet to protect against corrosion and rust

ENGINE DATA

Isuzu engines are hugely popular throughout Australia for light commercial vehicles and trucks.

This Stage 3 Japanese made engine provides significantly lower levels of harmful exhaust emissions than non-emission engines often used in other generator makes. It will help lower your environmental impact and improve air quality through decreasing NOx and exhaust particle emissions.



*Image shown may not reflect actual engine configuration.

Manufacturer	ISUZU
Model	BI-4HK1X
Emission Level	JPN Stage 3
Cylinder Configuration	Inline Type
Power	96.3kW
No of Cylinders	4
Displacement	5193cc
Aspiration	Direct-Injection, Turbo-Charged, Intercooled
Governor Type	Electronic
Speed (RPM)	1500
Voltage (V)	400V
Fuel Oil	Diesel
Fuel Consumption 100% PRP	22.9 L/hr
Fuel Consumption 75% PRP	17.8 L/hr
Fuel Consumption 50% PRP	11.9 L/hr
Coolant Type	35% Glycol LLC
Coolant Capacity	22.2 Litres
Lubrication Oil Type	SAE15W-40
Lubrication Oil Capacity	20.5 Litres
Lubrication Oil Change Interval (Hours)	500hrs (50hrs first change)
Lubrication Oil Filter	Spin On Canister

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ALTERNATOR DATA

You won't find continuous duty alternators on many generators. Airman builds their own continuous-rated alternators in-house, ensuring exceptional reliability for long-term operation, extended lifespan, and the stable output critical for sensitive equipment. This means less downtime and lower maintenance.

Manufacturer	Taiyo
Type	Brushless with AVR
Rating	TBA
No of Phases	3 Phase
Power Factor	0.8
No of Poles	4 Pole
Voltage Regulation (Steady State)	± 0.5%
Insulation Class	Class F
Degree of Protection	
Connection	Star Connection
Total Harmonic Distortion	
Frequency (Hz)	50Hz
Voltage output (V)	400V



*Image shown may not reflect actual alternator configuration.

AUTO TRANSFER SWITCHES (OPTION FOR STANDBY POWER APPLICATIONS)

CAPS automatic transfer switch ensures rapid power restoration during outages. Simple to set up, it automatically or manually starts your generator, guaranteeing minimal disruption when switching from mains to backup power is critical.

Available Ratings	35A, 63A, 100A, 125A, 160A, 200A, 250A, 400A, 630A
Phases	3 phases 4 poles with manual operation option
Display and settings	LED and Potentiometers / (electronic controller 200A and above)
Voltage drop tolerated	5 to 20% voltage and 3 to 10% frequency adjustable
Mains failure start	Changeover delay adjustable to 60 secs
Protection	IP31 (locate Indoors). Higher IP protection available



*Image shown may not reflect actual automatic transfer switch configuration.

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■ CONTROL PANEL

Airman DSE generators use the latest Deep Sea Electronics auto controller, allowing for both manual and automatic operation. The generator can start automatically when the DSE controller receives a signal from an ATS or another external device.



Functions

- Auto start on capability
- Manual start capability
- Back-lit LCD text display
- Five key menu navigation
- Configurable via the fascia or PC via USB port
- Remote start capability
- Hour meter
- Generator/load power monitoring
- Configurable maintenance alarms
- 8 configurable inputs
- 8 configurable outputs
- Real-time clock provides accurate event logging
- Battery voltage monitoring
- Engine controller

PROTECTION FEATURES

Engine alerts

High Water Temperature	Shutdown & Breaker Trip
Low Oil Pressure	Shutdown & Breaker Trip
Overspeed	Shutdown & Breaker Trip
Low Fuel Level	Warning
Fluid in Bund	Warning
Air Filter Clogged	Warning
Failed to Start	Warning

Electrical alerts

Over Voltage	Shutdown & Breaker Trip
Over Current	Shutdown & Breaker Trip
Short Circuit	Shutdown & Breaker Trip
Earth Leakage (on earth leakage relay)	Breaker Trip and Warning (on EL device)

Standby - Auto Start Logic

Start signal command	5 sec
Preheating (glow plugs)	0-15sec
Engine Start time	Varies
Circuit lagging to circuit formed	10 sec

Standby - Auto Shutdown Logic

Stop signal command	10 sec
Engine Shutdown time	Varies
Returns to Auto - Ready to Start model	

Failure to start: 3x10sec start attempts - 8 sec apart

■ CAPS CUSTOM OPTIONS

Let CAPS option your Airman generator to suit your needs. Our typical options for mining, construction and rental builds includes:

- Bunded skids with fork slots
- Fire Extinguisher
- Flashing Strobe running lamp
- Power outlet sockets to your specifications (typically 1 x 32amp 3phase and 2 x 15amp 1phase)
- High Viz stripes
- Remote fuel bypass systems
- Battery Isolator
- Lever style radiator cap
- Exhaust spark arrestors
- Start isolator
- lagging tape
- Battery Jump start receptacles
- Trailer mounting....and more

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