# SDG25LX-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 | 22kVA |
| | 17.6kW |
| | 31.8A |
| Prime power | 20kVA |
| | 16kW |
| | 28.9A |
| Voltage (V) | 400 |
| Fuel Tank Capacity (L) | 180 |
| Run time @75% load (Hrs) | 45 |
| Sound (dBA @ 7m) | 59 |
| Weight (dry / wet) | 720kg / 890kg |
| Dimensions LWH (mm) | 1540×700×1250 |
| Frequency (Hz) | 50 |
| Phases | 3 |

**Standby 22kVA**
**Prime 20kVA**

**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 (bunded)
- 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 | Kubota |
| Model | V2403-K3A |
| Emission Level | JPN Stage 3 |
| Cylinder Configuration | Inline Type |
| Power | 19.1kW |
| No of Cylinders | 4 |
| Displacement | 2434cc |
| Aspiration | Swirl Chamber Injection |
| Governor Type | Electronic |
| Speed (RPM) | 1500 |
| Voltage (V) | 400V |
| Fuel Oil | Diesel |
| Fuel Consumption 100% PRP | 5.2 L/hr |
| Fuel Consumption 75% PRP | 4.0 L/hr |
| Fuel Consumption 50% PRP | 3.0 L/hr |
| Coolant Type | 35% Glycol LLC |
| Coolant Capacity | 7.0 Litres |
| Lubrication Oil Type | SAE15W-40 |
| Lubrication Oil Capacity | 9.5 Litres |
| Lubrication Oil Change Interval (Hours) | 250hrs (50hrs first change) |
| Lubrication Oil Filter | Spin On Canister |

# 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.

*Image shown may not reflect actual alternator configuration.

| | |
|---|---|
| Manufacturer | Airman |
| Type | Brushless with AVR |
| Rating | Continuous |
| 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 |

# 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.

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

| | |
|---|---|
| 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 |

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