

# DIESEL ENGINE GENERATOR

# AIRMAN

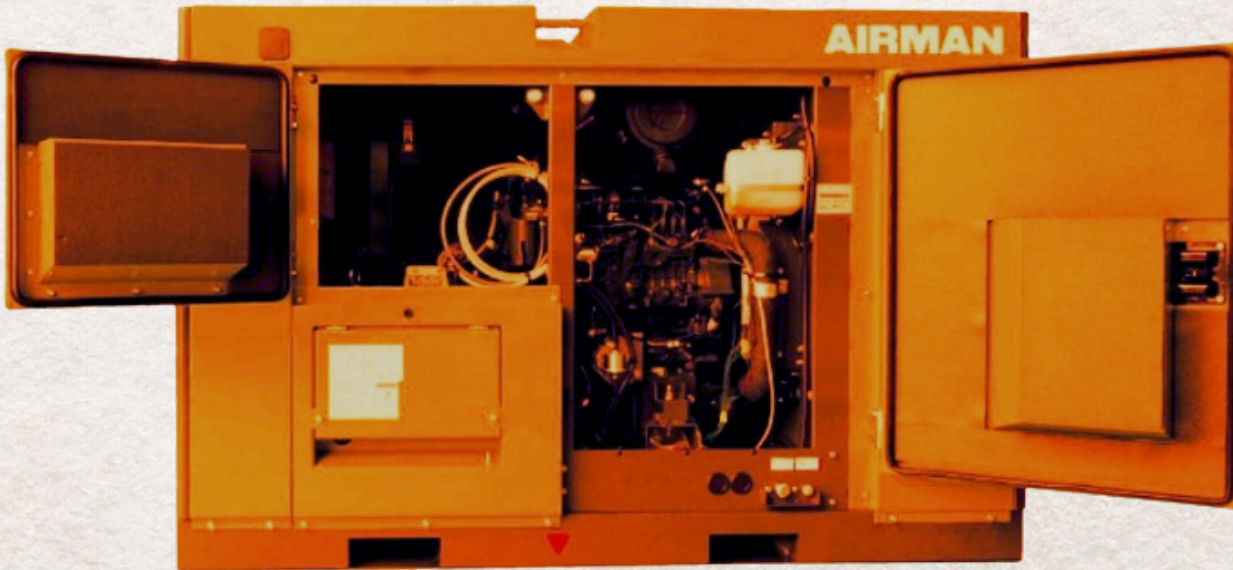
**SDG45S**

HINO ENGINE  
W04D-K



BY GAINWEALTH ENGINEERING & TRADING

# Features & Benefits



## HIGH GENERATOR PERFORMANCE

Preset Voltage Regulation within :  $\pm 0.5\%$

## TRANSPORTABILITY

Good mobility as easy to lift by lifting bail and easy to install by forklift slots.

## RESESSED OUTLET AS AN OPTION

Additional socket available as factory set option for various applications onsite

## ENVIRONMENTAL FRIENDLY

Low Noise level :

- Sound power level in decibels **88dB**
- Sound pressure level at 7m **58 / 61 dB(A)** (50/60Hz)

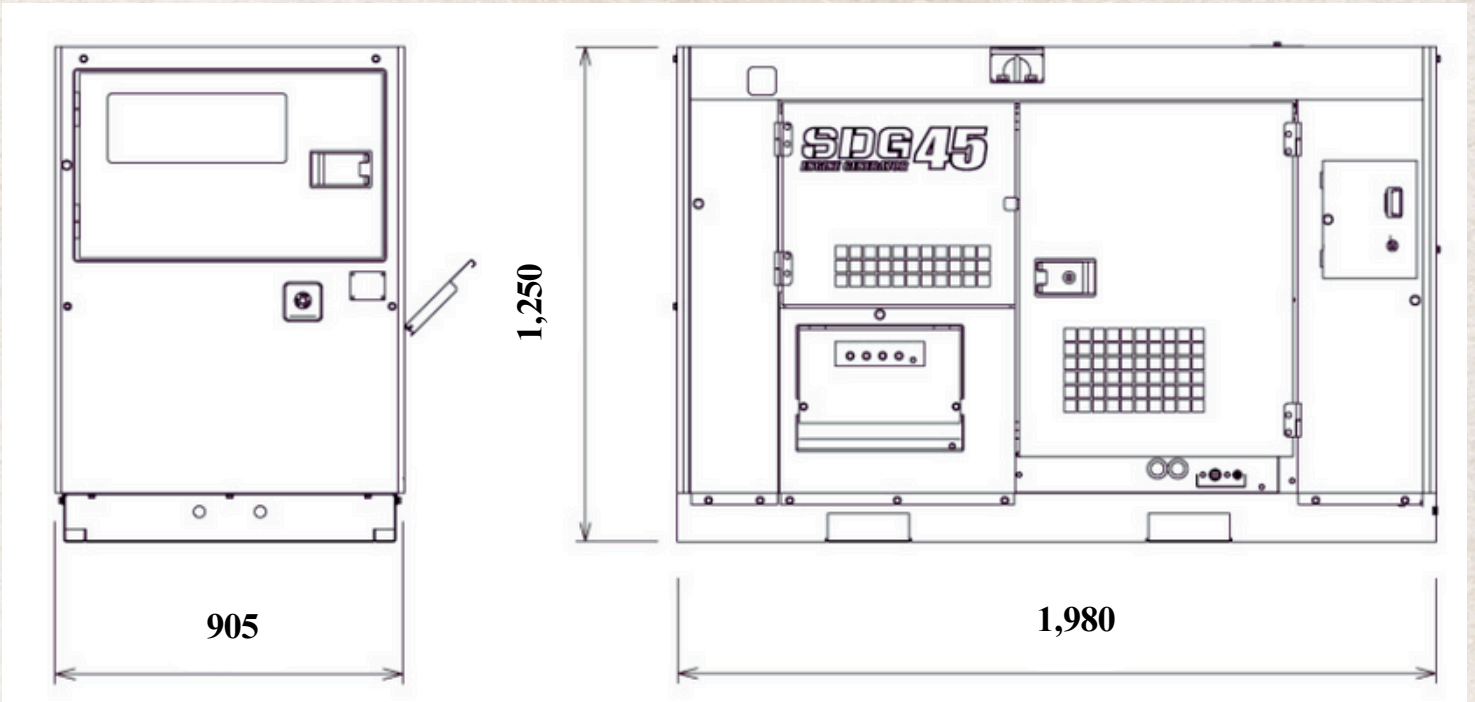
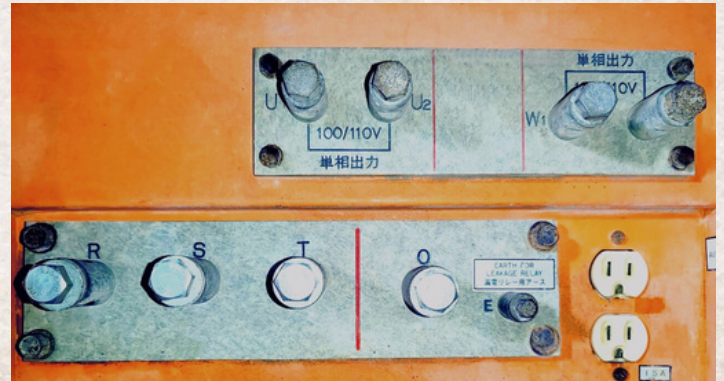
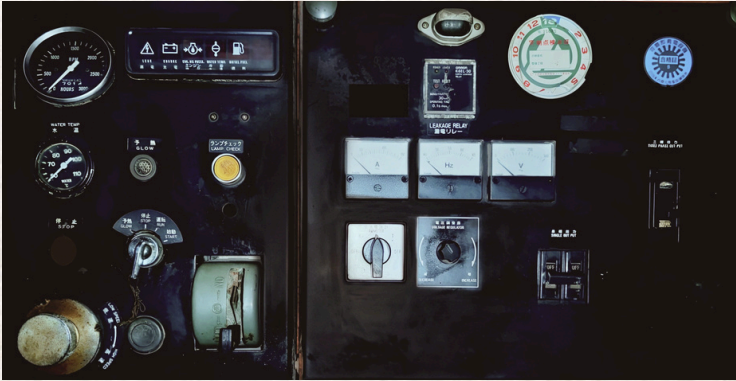
## INCREASE RELIABILITY

Pursuit of robustness by optimized design for operation in harsh environment

- Fully sealed terminal board
- Dust protection at alternator inlet
- Base frame water stopper plate
- Emergency stop button as standard

FEATURES & BENEFITS

HINO WO4D-K



## SPECIFICATION SDG45S

### DIESEL ENGINE

<b>Maker</b>	Hino
<b>Model</b>	W04D-K
<b>Type</b>	Inlined, Direct Injected
<b>No. of cylinder</b>	4
<b>Bore diameter x stroke</b>	104 mm x 118 mm
<b>Total displacement</b>	4.009 L (4,009 cc)
<b>Fuel Consumption (L/h)</b>	6.5
<b>Rated output</b>	34.2 kW (46.5 PS) / 1,500 rpm 41.9 kW (57 PS) / 1,800 rpm
<b>Charging generator</b>	12V, 30 A
<b>Starter motor</b>	12V, 2.5 kW
<b>Battery</b>	80D26R X 2
<b>Air cleaner</b>	Dry type
<b>Cooling water capacity</b>	12.2 Liters
<b>Fuel tank capacity</b>	100 Liters
<b>Lubricating oil capacity</b>	16.5 Liters

### DIMENSION & WEIGHT

<b>L x W x H</b>	1,980 x 905 x 1,250 mm
<b>Dry weight</b>	1220 kg
<b>Operation weight</b>	1,330 kg

## GENERATOR

**Type 3P,4 Wires**

**Output**

**Voltage**

**Power factor**

**Current**

**Frequency**

**No. of poles**

**Rated revolution**

**Class of insulation**

**Class of rating**

**Driving system**

**OPTION**

**Socket (2 pin, type C)**

**Current**

**Voltage**

Revolving field brushless type

37 I 45 KVA (29.6 I 36.0 kW)

400(380) I 440 V

80%

53.4 / 59.0 A

50 / 60 Hz

4

1,500 / 1,800 rpm

Class F

Continuous

Direct coupled to engine

15A x 2

231 (220) I 254 V

## PROTECTION

**Engine Stop**

Low engine oil pressure

High water temperature

Battery charging failure

Over speed

Abnormal of speed sensor

Abnormal of solenoid

Abnormal of water temperature sensor

Short circuit of water temperature sensor

Snapping alternator L wire

Overvoltage

**Breaker Trip**

Over current, Short circuit

Leakage

## CONTROL PANEL

<b>Generator</b>	AC Voltmeter AC Ammeter Frequency meter Voltage regulator (with AVA) Leakage relay Magnetic circuit breaker (3P)
<b>Engine</b>	Starter switch Glow lamp Engine water temp gauge
<b>Warning lamps</b>	Fuel gauge ( with hour meter) Low engine oil pressure High water temperature No charging Air filter clogging

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