

# DIESEL ENGINE GENERATOR

# AIRMAN

**SDG45S**

NISSAN ENGINE  
BD30T



BY GAINWEALTH ENGINEERING & TRADING

# Features & Benefits



## HIGH GENERATOR PERFORMANCE

Preset Voltage Regulation within : **± 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)

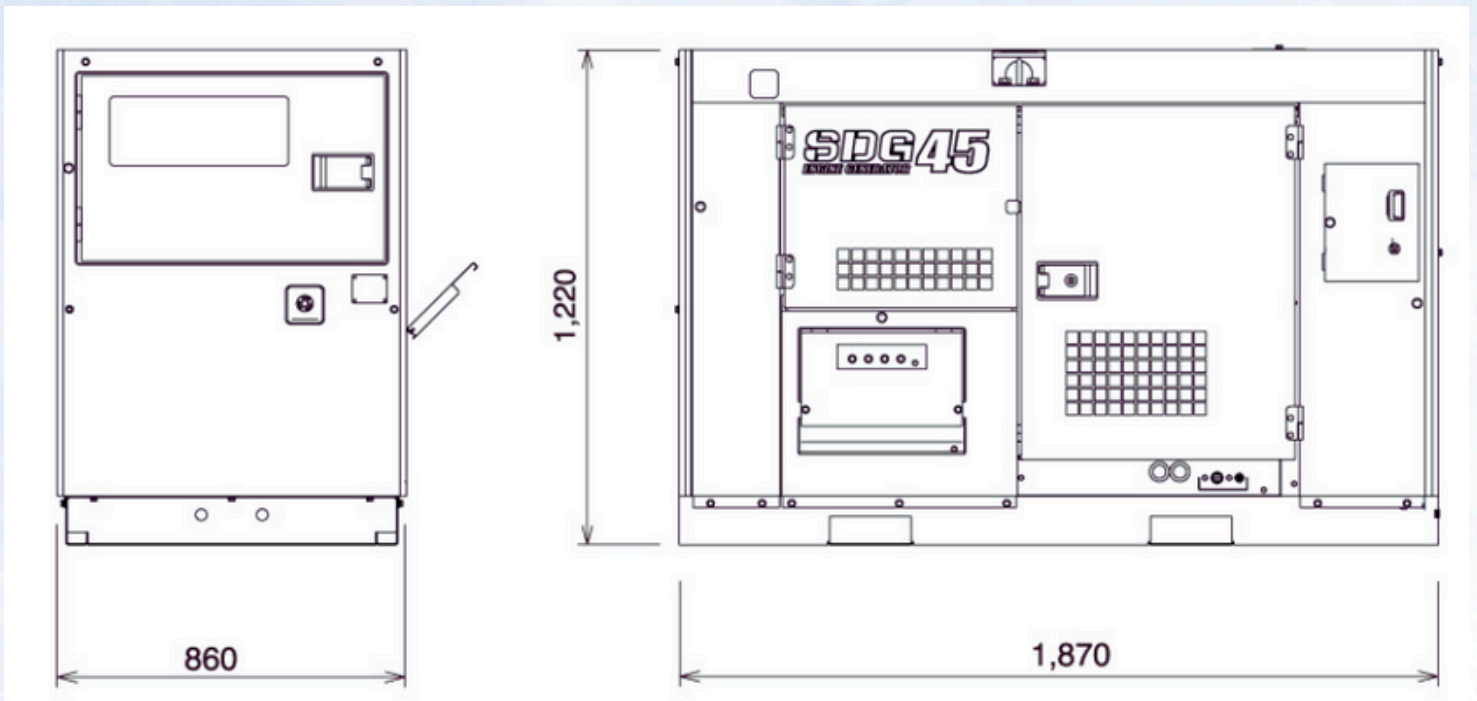
## INCREASE RELIABILITY

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

# NISSAN BD30T



## SPECIFICATION SDG45S

### DIESEL ENGINE

<b>Maker</b>	NISSAN
<b>Model</b>	BD30T
<b>Type</b>	Water-cooled 4 cycle
<b>No. of cylinder</b>	4
<b>Bore diameter x stroke</b>	96 mm x 103 mm
<b>Total displacement</b>	3.620 L (3,620 cc)
<b>Compression ratio</b>	21.8 :1
<b>Rated output</b>	35.0 kW (47.6 PS) / 1,500 rpm 42.5 kW (57.8 PS) / 1,800 rpm
<b>Charging generator</b>	12V ,30 A
<b>Starter motor</b>	12V, 2.5 kW
<b>Battery</b>	80D26R-MF 12V
<b>Air cleaner</b>	Dry type
<b>Cooling water capacity</b>	11 Liters
<b>Fuel tank capacity</b>	100 Liters
<b>Lubricating oil capacity</b>	13.2 Liters

### DIMENSION & WEIGHT

<b>L x W x H</b>	1,870 x 860 x 1,220 mm
<b>Dry weight</b>	910 kg
<b>Operation weight</b>	1,020 kg

## GENERATOR

<b>Type 3P,4 Wires</b>	Revolving field brushless type
<b>Output</b>	37 I 45 KVA (29.6 I 36.0 kW)
<b>Voltage</b>	400(380) I 440 V
<b>Power factor</b>	80%
<b>Current</b>	53.4 / 59.0 A
<b>Frequency</b>	50 / 60 Hz
<b>No. of poles</b>	4
<b>Rated revolution</b>	1,500 / 1,800 rpm
<b>Class of insulation</b>	Class F
<b>Class of rating</b>	Continuous
<b>Driving system</b>	Direct coupled to engine
<b>OPTION</b>	
<b>Socket (2 pin, type C)</b>	
<b>Current</b>	15A x 2
<b>Voltage</b>	231 (220) I 254 V

## PROTECTION

<b>Engine Stop</b>	<ul style="list-style-type: none"> <li>Low engine oil pressure</li> <li>High water temperature</li> <li>Battery charging failure</li> <li>Over speed</li> <li>Abnormal of speed sensor</li> <li>Abnormal of solenoid</li> <li>Abnormal of water temperature sensor</li> <li>Short circuit of water temperature sensor</li> <li>Snapping alternator L wire</li> <li>Overvoltage</li> </ul>
<b>Breaker Trip</b>	<ul style="list-style-type: none"> <li>Over current, Short circuit</li> <li>Leakage</li> </ul>

## CONTROL PANEL

### Generator

AC Voltmeter  
AC Ammeter  
Frequency meter  
Voltage regulator (with AVA)  
Leakage relay  
Magnetic circuit breaker (3P)

### Engine

Starter switch  
Glow lamp  
Engine water temp gauge

### Warning lamps

Fuel gauge ( with hour meter)  
Low engine oil pressure  
High water temperature  
No charging  
Air filter clogging

### Gainwealth Engineering & Trading

No. 6, Jalan Sutera 1/5A Kawasan Perindustrian, Bukit Angkat, 43000 Kajang, Selangor, Malaysia

H/P: 6012-3717349 Tel: 03-8730 1327

E-mail: alex2gw@gmail.com