

DIESEL ENGINE GENERATOR

SDG45S



Tier 3 Engine installed

Features & Benefits

◆ High Generator Performance

Preset Voltage Regulation within $\pm 0.5\%$

◆ Environmental Friendly

Low Noise level : Sound power level in decibels **88 dB**
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

◆ Transportability

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

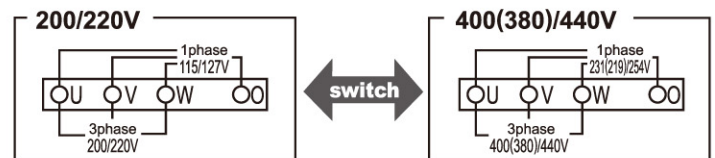
◆ Resessed outlet as an option

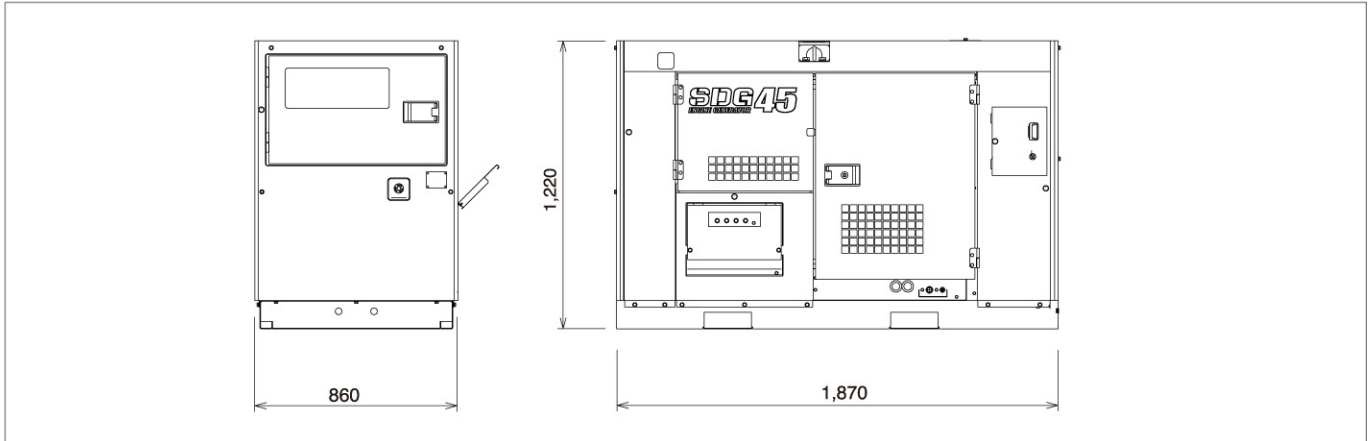
Additional socket available as factory set option for various applications onsite

◆ Dual Voltage Models

By changing over the short connecting plate in the control panel, the three phase output voltage can be switched to 200/220V from 400(380)/440V and vice versa.

When starting engine, the indication lamp at the operation panel goes on to display the operating voltage immediately.





SPECIFICATIONS SDG45SE-3B2

GENERATOR

Type	Revolving field brushless type
3P, 4W Output	37 / 45 kVA (29.6 / 36.0 kW)
Voltage	200/400 (380) V / 220 / 440 V
Power factor	80%
Current	107 / 53.4 (56.2) A / 118 / 59 A
Frequency	50 / 60 Hz
No. of poles	4
Rated revolution	1,500 / 1,800 rpm
Class of insulation	Class F
Class of rating	Continuous
Driving system	Direct coupled to engine

OPTION

Socket (2 pin, type C)	
Current	15A x 2
Voltage	231 (220) / 254 V

DIESEL ENGINE

Maker	KUBOTA
Model	V3600-T-K3A
Type	Water-cooled 4 cycle, swirl-chamber
No. of cylinder	4
Bore dia. x stroke	98 mm x 120 mm
Total displacement	3.620 L (3,620 cc)
Compression ratio	21.8 : 1
Rated output	35.0 kW (47.6 PS) / 1,500 rpm 42.5 kW (57.8 PS) / 1,800 rpm
Charging generator	12V, 30 A
Starter motor	12V, 2.5 kW
Battery	80D26R-MF 12V
Air cleaner	Dry type
Cooling water capacity	11 Liters
Fuel tank capacity	100 Liters
Lubricating oil capacity	13.2 Liters

PROTECTION

ENGINE STOP

Low engine oil pressure
High water temperature
Battery charging failure
Overspeed
Abnormal of speed sensor
Abnormal of solenoid
Abnormal of water temp. sensor
Short circuit of water temp. sensor
Snapping alternator L wire
Overvoltage
Overcurrent, Short circuit
Leakage

BREAKER TRIP

CONTROL PANEL

Generator

AC Voltmeter
AC Ammeter
Frequency meter
Voltage regulator (with AVR)
Leakage relay
Magnetic circuit breaker (3P)
Voltage display lamp (200 / 400V)
Starter switch
Operation mode selection switch
Frequency selection switch
Glow / Trouble lamp
Engine water temp gauge
Fuel gauge (with hour meter)
Low engine oil pressure
High water temperature
Not charging
Air filter clogging
Snapping alternator L wire

Engine

Warning lamps

DIMENSION & WEIGHT

L x W x H	1,870 x 860 x 1,220 mm
Dry weight	910 kg
Operation weight	1,015 kg

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SAFETY

- Operate safely in accordance with proper operation manual.
- To prevent trouble and accidents, perform daily and preventive maintenance checks without fail.



ISO9001 : JQA-0581
ISO14001 : JQA-EM4670