GK30S
50Hz @1500rpm,3- Phase

A. STANDARDS & CONDITIONS

Design Standards

The designs and the productions are in conformity with:

- Conformite Europeenne (CE)
- ISO8528-5:2005
- AS 3000-2018
- AS 3010-2017

Environmental Operating Conditions

- Installation place: Outdoors or indoors (well ventilated).
- Ambient temperature: -25℃ to 50℃.The coolant heater is needed when the temperature is below 5℃
- Humidity: Less than 90%.
- Altitude: Below one thousand (1000) meters above sea level.

Factory Inspection

- Inspection items.
- Protection devices working test.
- Starting ability in normal temperature.
- 50% rated power load moment capability.
- Voltage deviation and speed variation: 0%, 25%, 50%, 75%, 100%, 110% Load.

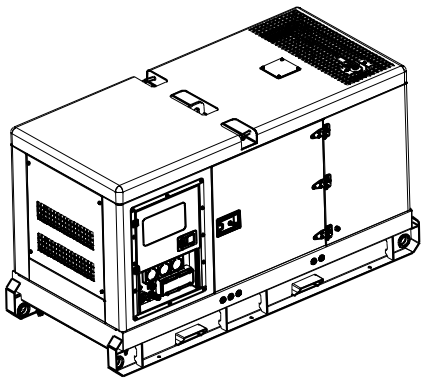
Painting Process

- Painting process specifications and colors are based on the manufacturer's standard.
- The customer could also choose the color which the manufacturer offers.

B. GENERAL FEATURES

- Kubota engine V3300-BG
- Close coupled to Stamford alternator S0L2-P1
- Microprocessor control module DSE-4520
- SCHENIDER main circuit breaker: 50A
- Rotate speed governor: Mechanical governor
- Excitation System: Self ExcitedSHUNT
- A.V.R.Model: AS440
- Key switch
- Emergency stop switch
- ATS (automatic transfer switch) receptacle
- Remote run connector
- 2x single-phase convenience receptacle
- 1x three-phase convenience receptacle
- 1x12V/72AH sealed for life maintenance free battery
- Lockable battery isolator switch
- Powder coated canopy
- 50℃ radiator
- Oil pump on the engine
- Non-returning valve for fuel inlet hose of the engine
- Steel base frame with forkslots
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank for 25 hours running
- Drain points for fuel tank
- Breather valve for fuel tank
- Operation Manual / Specifications

C. GENERAL TECHNICAL DATA

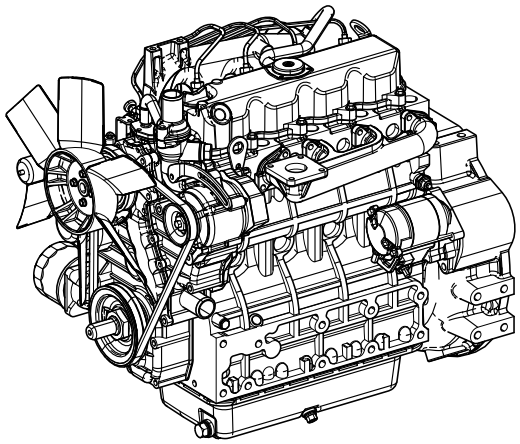


Model.....**GK30S**
Structure type ..... R
Tank capacity.....165L
Dry weight.....1104kg
Noise level @7m 67.3dBA
Dimensions L×W×H..... 2300x1030x1253mm
Standby Power 33kVA/26.4kW
Prime Power 30kVA/24kW
Voltage/Ampere 415V/42A

Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	N/A	3.3	4.8	6.6	7.6

LOCATION: 24 Perrin Place, Salisbury, QLD 4107
EMAIL: sales@genelite.com.au

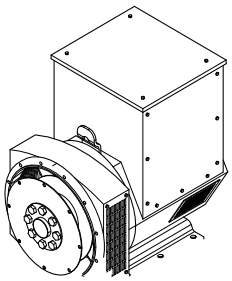
DIESEL ENGINE



ENGINE SPECIFICATIONS

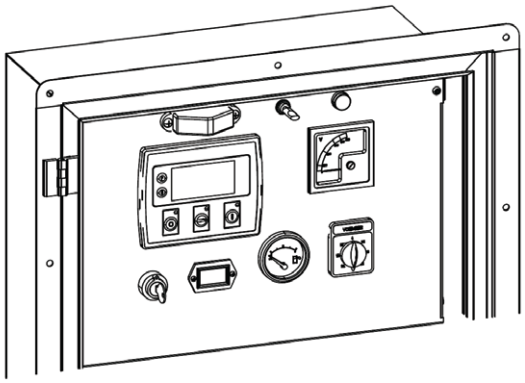
1	ENGINE MANUFACTURER/BRAND	Kubota
2	ENGINE MODEL	V3300-BG
3	DIMENSIONS	769.2× 536 × 751 mm
4	DRY WEIGHT (APPROX.)	241kg
5	NUMBER OF CYLINDERS	3
6	BORE	98 mm
7	STROKE	110 mm
8	DISPLACEMENT (LITER)	3.318L
9	COMPRESSION RATIO	22.6
10	TYPE OF INJECTION	N/A
11	INTAKE SYSTEM	Natural Aspirated
12	INTAKE RESISTANCE	1.96 kPa
13	COOLING SYSTEM	Water Cooled
14	FAN	Pusher
15	BATTERY VOLTAGE	12V
16	TYPE OF FUEL	Diesel fuel No.2-D (ASTMD975)
17	TYPE OF OIL	Class CF Lubricating Oil
18	OIL CAPACITY	13.2L
19	TYPE OF COOLANT	Glycol Mixture
20	COOLANT CAPACITY	7.6 L
21	BACK PRESSURE	7.07 kPa
22	STANDBY POWER	28.9 kW
23	PRIME POWER	26.3 kW
24	FUEL CONSUMPTION (100% LOAD)	7 L/h

ALTERNATOR



1	ALTERNATOR MANUFACTURER/BRAND	Stamford
2	ALTERNATOR MODEL	SOL2-P1
3	EXCITER	Brushless
4	COOLING FAN	Cast alloy aluminium
5	WINDINGS	100% Copper
6	INSULATION CLASS	H
7	WINDING PITCH	2 / 3
8	TERMINALS	12
9	DRIP PROOF	IP23
10	ALTITUDE	≤ 1000m
11	OVERSPEED	2250rpm
12	AIR FLOW	0.216m³/s(50Hz),0.281m³/s(60Hz)
13	VOLTAGE REGULATION	± 0.5%
14	TOTAL HARMONING TGH / THCat No Load < 1.5%	on load < 5%
15	TELEPHONE INTERFERENCE	THF < 2%; TIF <50

DSE-4520 CONTROL SYSTEM

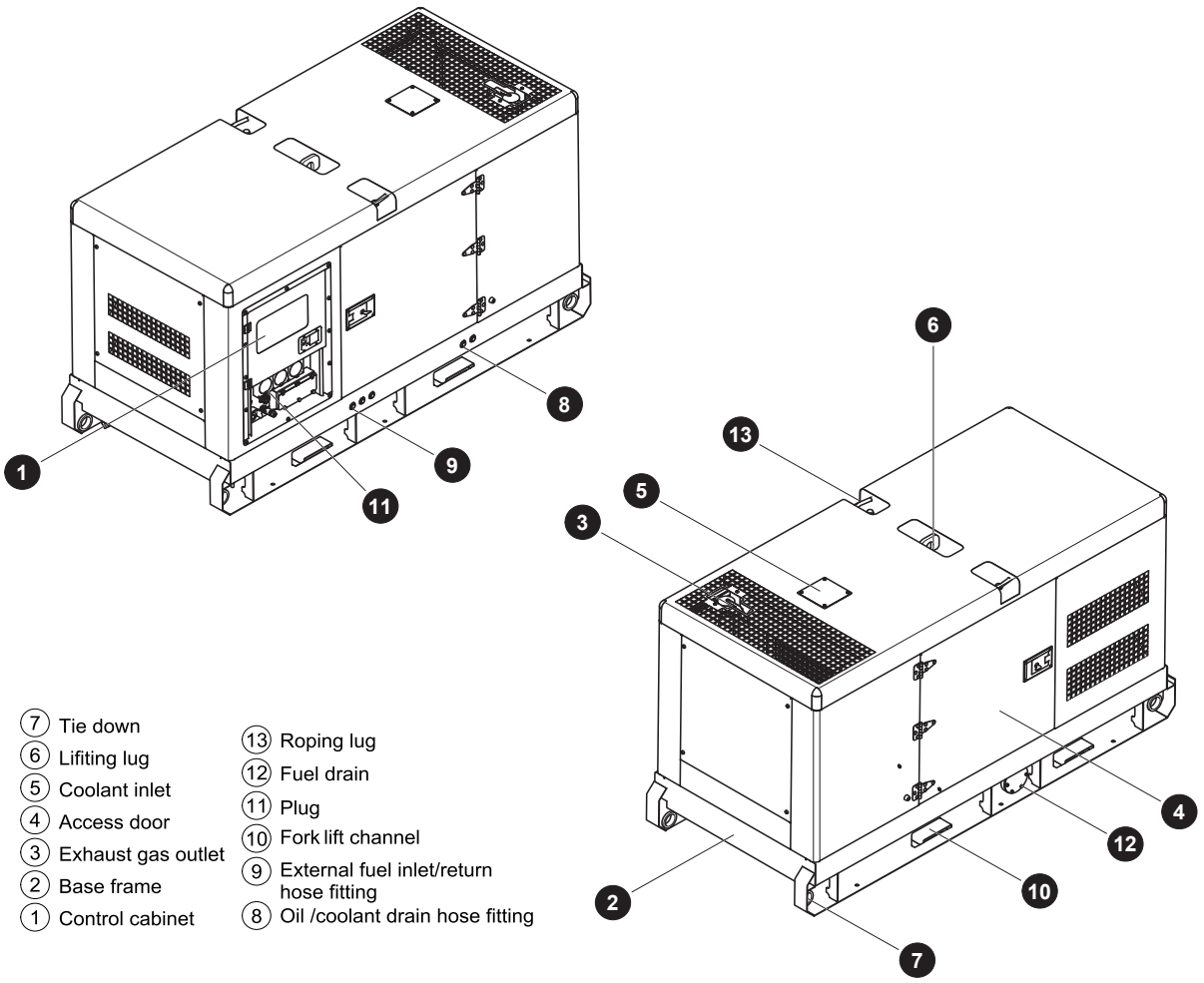


DSE-4520 is an advanced control module based on microprocessor designed to control the engine via push buttons on the front panel. The module is used to start and stop the engine and indicate fault conditions, automatically shutting down the engine and giving a true first up fault condition of an engine failure.

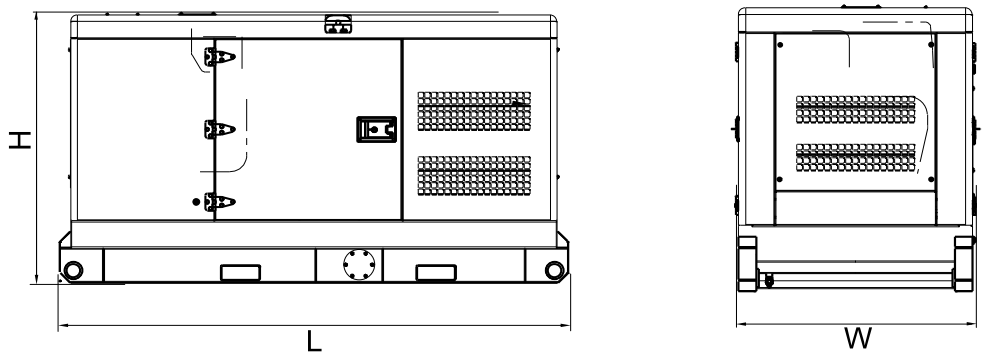
Standard Control Function

- Manual Engine Control Module
- Low Oil Pressure
- High Engine Temperature
- Auxiliary Shutdown
- Overspeed Protection
- Protection Hold-Off Timer
- Charge Failure Warning

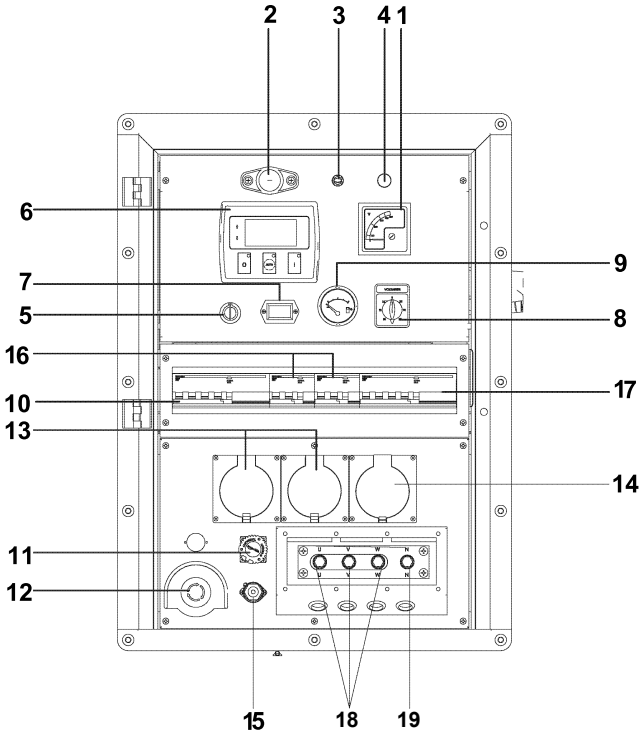
D. OVERALL DIMENSION



(7) Tie down
(6) Lifiting lug
(5) Coolant inlet
(4) Access door
(3) Exhaust gas outlet
(2) Base frame
(1) Control cabinet
(13) Roping lug
(12) Fuel drain
(11) Plug
(10) Fork lift channel
(9) External fuel inlet/return hose fitting
(8) Oil /coolant drain hose fitting

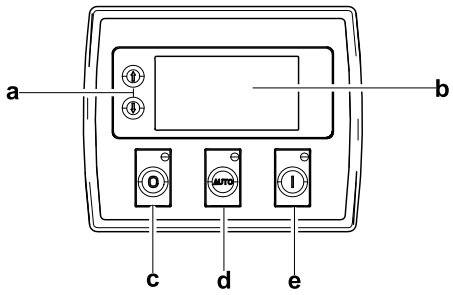


B. CONTROL SYSTEM



Control & field wiring cabinet

Ref.	Description
1	Voltage meter
2	Control cabinet lamp
3	Control cabinet lamp switch
4	Charge indicator
5	Key switch
6	Control module
7	Time counter
8	Voltmeter change-over switch
9	Oil pressure meter
10	Main circuit breaker
11	ATS connector
12	Emergency stop switch
13	Single-phase convenience receptacle
14	Three-phase convenience receptacle
15	4 Pin connector
16	Mini circuit breakers (for 1P receptacle)
17	Mini circuit breakers (for 3P receptacle)
18	Live wire terminals
19	Neutral wire terminal



Control module

Ref.	Description
a	Navigation button; Accept (Configuration mode only)
b	Main status display
c	Stop/reset button; Next page (Configuration mode only)
d	Auto start button; Decrease value/next item (Configuration mode only)
e	Start button; Increase value/next item (Configuration mode only)