MODEL
RK15KB

Standby/Prime
15 kW / 12 kW

60 Hz | EPA Tier 4 | 1800 RPM

SOUNDPROOF **GENSET**

Referential image

RATINGS

Voltage (L-L)		240V	208V	240V	480V
Phase		1 PH	3 PH	3 PH	3 PH
Power factor	Cos Phi	0.8	0.8	0.8	0.8
Frecuency	Hz	60	60	60	60
Controlator	Deepsea	6320 MKII	6320 MKII	6320 MKII	6320 MKII
Breaker	Siemens	3VA5 80A	3VA5 80A	3VA5 80A	3VA5 80A
Engine	Kubota	D1703-ME3BG	D1703-ME3BG	D1703-ME3BG	D1703-ME3BG
Alternator	Stamford	S0L2-G	S0L2-G	S0L2-G	S0L2-G
Connection		Dedicated	12 Lead low	12 Lead serie delta	12 Lead high delta
STANDBY					
Power	KW	15	15	15	15
Power	KVA	15	18.75	18.75	18.75
Amperage	A	62.4	52	45	23
PRIME					
Power	KW	12	12	12	12
Power	KVA	12	22.5	22.5	22.5
Amperage	A	50	41	36	18

Certificactions and standards

- **EPA Tier 4** (refer emissions certified)
- **IBC 2018** and **ASCE/SEI7-16** - optional (refer to seismic Certification)
- **UL 2200** - optional (refer to System ratings for availability and assembly)
- **UL 142** - optional (refer to aboveground tank)
- Generator set tested to **ISO 8528-5** for transient response
- Verified product design, quality, and performance integrity
- All engine systems are prototype and factory tested

Warranty Polity

- Engine and Assembly Warranty for a period of 2 years or 2,000 hours of operation
- Electrical Components Warranty for a period of 2 years or 2,000 hours of operation

Prime Power (PRP): According to ISO 8528-1:2018, PRP is the maximum power available for use under variable loads for an unlimited number of hours per year within the manufacturer's prescribed maintenance intervals and under the environmental conditions specified by the manufacturer. The average power consumed over a 24-hour period must not exceed 70% of the PRP.

Emergency Standby Power (ESP): According to ISO 8528-1:2018, ESP is the maximum power available for use under variable loads in the event of a grid power outage or during testing conditions for a limited number of hours per year, specifically 200 hours, within the manufacturer's prescribed maintenance intervals and under the environmental conditions specified by the manufacturer. The average power consumed over a 24-hour period must not exceed 70% of the ESP.

Specifications of **aplication**

ENGINE

Manufacturer	Kubota	**Displacement**	**L (in^3)**	1.647 (100.5)
Model	D1703-ME3BG	**Bore x stroke**	**mm (in)**	87x92.4 (3.43x3.64)
Configuration	3 cylinders in line	**Frecuency**	**Hz**	60
Governor	mechanical centrifugal	**Velocity**	**RPM**	1800
Certification EPA	Tier 4	**Compression ratio**		22.6:1

FUEL SYSTEM

Fuel suction fitting	5/8" NPT Female
Fuel return fitting	1/2" NPT Female
Injection type	Indirect injection

AIR REQUIREMENTS

Type aspiration		Natural aspiration
Airflow for radiator cooling	**m3/min(CFM)**	1.658(46.8)
Intake airflow	**m3/min(CFM)**	1.74(61.5)

OIL SYSTEM

Oil capacity	**L (gal)**	5.67 (1.5)
Oil pressure	**psi (kPA)**	23 (43)
Lube oil specification		SAE 15W-40

EXHAUST SYSTEM

Maximum exhaust back pressure	**kPa (in. H2 0)**	10.2 (40.8)
Gas volume at stack temp	**m3/min(CFM)**	4.76(168)
Gas temp. (stack)	**°C (°F)**	510 (950)

COOLING SYSTEM

Coolant capacity	**L(gal)**	5.5(1.45)
Ambient capacity of radiator	**°C (°F)**	50 (122)
Max. Restriction of Cooling Air	**kPa (in. H20)**	0.12 (0.5)

ELECTRIC SYSTEM

Electric volts	**Volt DC**	12

FUEL CONSUMPTION

		STANDBY
At 100% load	**L/hr (gal/hr)**	3.9(1.28)
At 75% load	**L/hr (gal/hr)**	2.92(0.77)
At 50% load	**L/hr (gal/hr)**	1.95(0.51)

Specifications of **alternator**

GENERAL DATA — 60 Hz

Manufacturer		Stamford
Model		S0L2-G
Capacity of overload		(+/- 1.5% of rated capacity)
Bearing	**N°**	1
Polos	**N°**	4
Insulation standby - prime	**Clase**	H
Enclosure (according IEC-34-5)		IP23
Temp. Rise Standby - prime	**°C**	150/40 - 125/40
AVR		AS540 Regulation of voltage (+/- 1%)
Exciter system		Self Excited

Specifications of **control panel**

Deepsea 6320 has the capability of automatic and manual start. Digital readings include: voltage between each phase and neutral, voltage between phases, amps per phase, frequency, power in kW and kVA, power factor, accumulated kWh on a daily, monthly, and annual basis, fuel reserve, oil pressure, coolant temperature, battery voltage, and alternator charge voltage, engine speed, and operating hours. Engine alarms include high coolant temperature, low oil pressure, emergency stop activated, battery charge failure, low coolant level, low fuel level, overspeed, insufficient speed, and low battery voltage.

Alarm of engine

High coolant temperature, low oil pressure, low coolant level, unexpected shutdown, low fuel level, stop failure, low battery voltage, battery charge alternator failure, overspeed, insufficient speed, startup failure, and emergency shutdown. Support for engines with an electronic control unit (ECU) (J1939, Modbus, and other proprietary interfaces); alarm codes displayed in text form.

Alarm of alternator

Overload, voltage imbalance, overvoltage, undervoltage, overfrequency, underfrequency, short circuit, and reverse power.

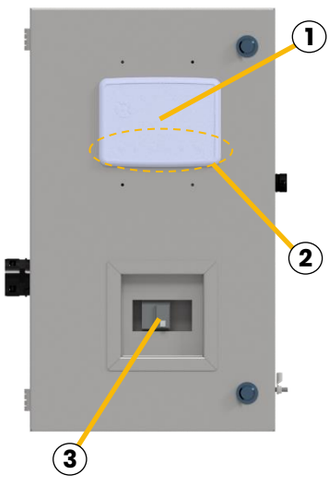
Main Features

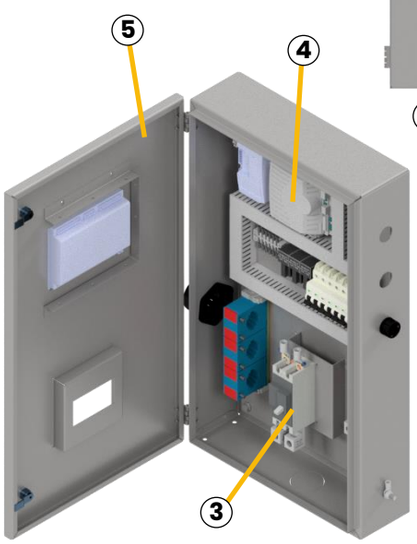
- Multilingual display
- Automatic start on power grid failure
- Engine runtime can be recorded for ease of maintenance and repair of the unit
- User-friendly button configuration and layout
- The LCD screen can display multiple parameters simultaneously
- Compatible with electronic fuel injection (EFI) engines
- IP65 rating
- Configuration via PC and front panel
- Fully configurable via PC using USB, RS232, and RS485 communication
- Data recording and trend analysis
- Support for sensors from 0 V to 10 V and from 4 mA to 20 mA
- Compatible with a wide range of CAN engines

① LCD Display

② Operation buttons

③ **MCCB** (Moulded case Circuit breaker)

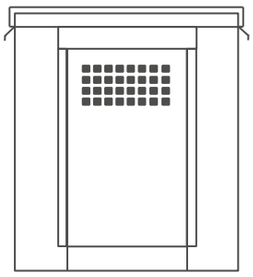




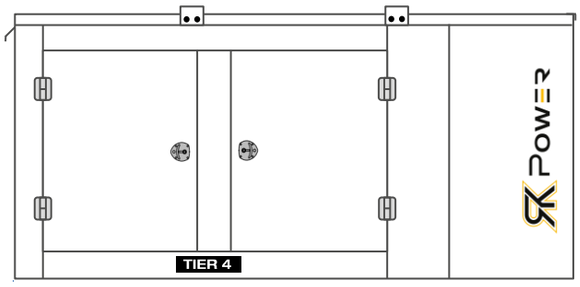
④ **Battery charger**
DSE9701 24V 5ª

⑤ **Enclosure**
Galvanil

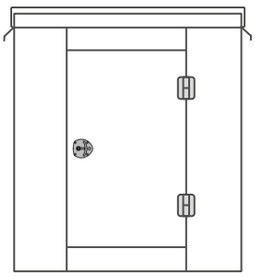
Level 2 | **air panel view**



Level 2 | **lateral view**

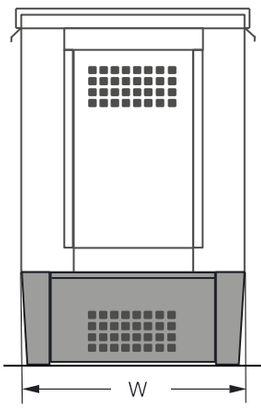


Level 2 | **exhaust view**

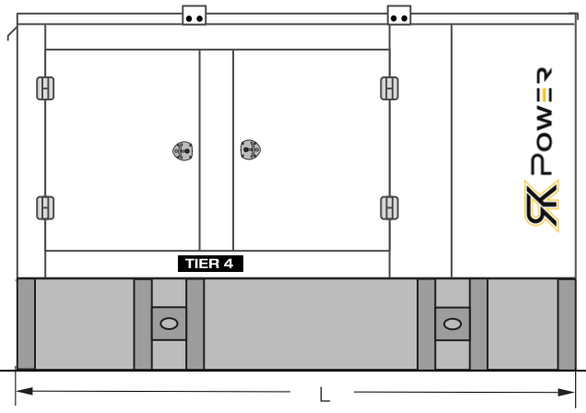


Level 2 enclosures include sound attenuation foam (one layer).
Enclosure manufactured in aluminum and with a wind rating of 150 MPH, certified according to **IBC2018** and **ASCE/SEI7-16** standards.

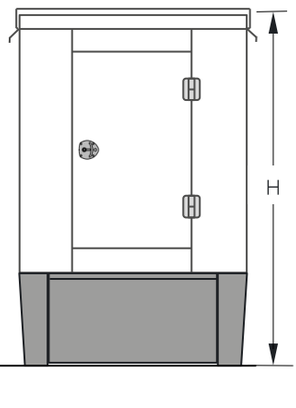
Level 2 | **air panel view**



Level 2 | **lateral view**



Level 2 | **exhaust view**



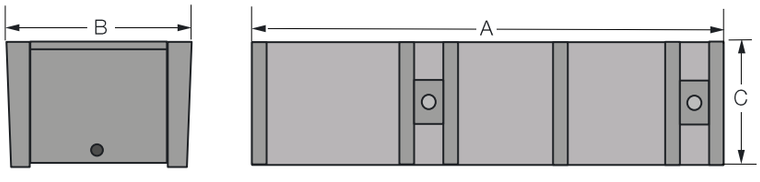
All measurements are approximate and are provided for estimation purposes only. Weights do not include fuel weight.
Sound levels are measured at 23 feet (7 meters) and do not take into account the environmental conditions of the site.
UL 2200 certified for generator assembly - optional

Dimensions, weight and **level sound**

	Length (in)	**Width (in)**	**Height (in)**	**Weight (lb)**	**Level sound**
	L	W	H		dB(A)@7m
Soundproof genset Level 2	71	40	49	2,600	63 +/- 2

Sub-base tank **single wall**

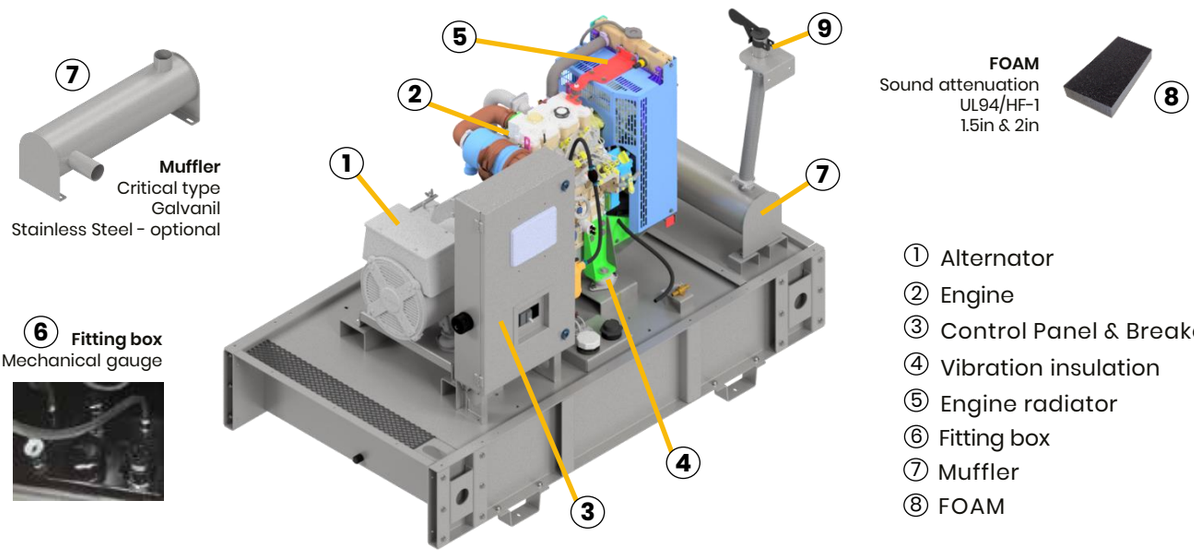
			72 hours
Capacity			**100 usg**
A	**Length**	**in**	71
B	**Width**	**in**	40
C	**Height**	**in**	15



Subbase tanks manufactured in steel under **UL142** - Optional

External parts of a standard **soundproof genset**

Intern parts of a standard **soundproof genset**



① Alternator
② Engine
③ Control Panel & Breaker box
④ Vibration insulation
⑤ Engine radiator
⑥ Fitting box
⑦ Muffler
⑧ FOAM

Optional **configuration**

Generator

- Movil type
- Open type
- Seismic insulators

Breaker

- ABB or SIEMENS
- Trip unit:
  - adjustable
  - electrónico

Engine

- Heater anticondensation

Alternator

- Heater anticondensation
- AVR PMG - MX341

Tank

- Double wall
- Extern daytank
- Extern tank

Additional accessories:

- Level switch alarm
- Spill detector switch

Control system

- Automatic transfer switch (ATS)
  - ABB, OSEMCO and VITZRO
    (NEMA 3R, 4X, 12)
    (Steel, Aluminium, Galvanil or SS)
- Sincronism system:
  - Deepsea DSE8620

787-286-6454
PR-1 Km 30.7, Quebrada Arenas
Industrial Park, San Juan - Puerto Rico

+1 (809) 339 2023
Nueva Zona Franca Chem Tec, Carr. La
Romana, San Pedro de Marcorís - Rep.
Dominicana

RK Power Generator Corp.
www.rkpower.com