MITSUBISHI ENGINE

RK POWER

MODEL
RKULSTD 800M

Standby
800kW/1000kVA

60 Hz | 1800 RPM | EPA Tier2

Soundproof **Generator**

Referential Image

RATINGS

Voltage (Ph-Ph/Ph-L)		**208/120V**	**240/120V**	**480/277V**
Phase		3PH	3PH	3PH
Power factor	**Cos Phi**	0.8	0.8	0.8
Frequency	**Hz**	60	60	60
Controlator	**Deep Sea Electronics**	7320 MKII	7320 MKII	7320 MKII
Engine	**Mitsubishi**	S12A2 Y2PTAW-2	S12A2 Y2PTAW-2	S12A2 Y2PTAW-2
Alternator	**Stamford**	S6L1D-D	S6L1D-D	S6L1D-D
Leads Connection		12 Lead Parallel Wye	12 Lead Delta	12 Lead Wye
STANDBY				
Power	**kW**	800	800	800
Power	**kVA**	1000	1000	1000
Amperage	**A**	2776	2406	1203
PRIME				
Power	**kW**	730	730	730
Power	**kVA**	913	913	913
Amperage	**A**	2533	2195	1098

Certifications and Standards

— **EPA Tier 2** (Refers to engine emissions control)
— **IBC 2021 / ASCE/SEI 7-16 -** optional (Refers to seismic and wind safety of generator)
— **UL 2200 –** optional (Refers to the generator assembly)
— **UL 142 –** optional (Refers to the design, construction, and testing of the tank)
— **ISO 8528-5 –** optional (Refers to testing for transient response)
— Verified product design, quality, and performance integrity
— All generator systems are prototype and factory tested

Warranty

— 2 years or 2000 hours operational warranty

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.

Continuous Power (COP): According to Standard ISO 8528-1:2018, this is the maximum power available for continuous loads for unlimited running hours a year between the maintenance times recommended by the manufacturer under the environmental conditions established by the same.

Application **Data**

ENGINE

Manufacturer	MITSUBISHI	**Displacement**	**L(in3)**	33.9(2071)
Model	S12A2 Y2PTAW-2	**Bore x stroke**	**mm(in)**	150x160(5.9x6.29)
Configuration	12 cylinders V / 60°	**Frequency**	**Hz**	60
Governor isochronous	Electronic	**Speed**	**RPM**	1800
Certification EPA	Tier 2	**Compression ratio**		15.3:1

FUEL SYSTEM

Fuel suction fitting	1/2" NPT Female
Fuel return fitting	1/2" NPT Female
Injection type	Direct
Recommended fuel	Diesel # 2 - ULSD

AIR REQUIREMENTS

Intake airflow	**m3/min(CFM)**	102(3602)
Airflow for radiator	**m3/min(CFM)**	1194(42191)
Type aspiration		Turbo Charged, H2O to Air CAC

LUBRICATION SYSTEM

Total oil capacity	**L (gal)**	120(31.7)
Recommended oil		SAE 15W-40

EXHAUST SYSTEM

Back pressure	**kPa (in. H2 0)**	3.9(15.7)
Exhaust Gas Flow	**m3/min (CFM)**	114(4044)
Gas temp. (stack)	**°C (°F)**	495(923)

COOLING SYSTEM

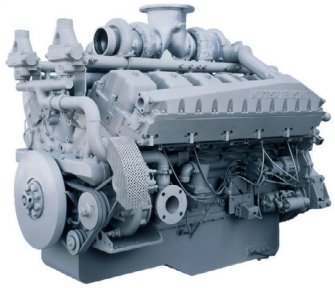
Coolant capacity	**L (gal)**	406(107)
Ambient Temp. Rad.	**°C (°F)**	50(122)
Recommended coolant		50/50

ELECTRIC SYSTEM

Starting system	**Volt**	24

FUEL CONSUMPTION

		STANDBY
At 100% load	**L/hr (gal/hr)**	244(64.3)
At 75% load	**L/hr (gal/hr)**	170(45)
At 50% load	**L/hr (gal/hr)**	117(31)



Alternator **Specifications**

GENERAL INFORMATION

Manufacturer	Stamford
Model	S6L1D-D
Design	4 Poles | IP23
Temp. Rise | Insulation Type	Standby 150/40°C | Class H
Exciter system | AVR	PMG | MX321 (+/-1%)

Control Panel **Specifications**

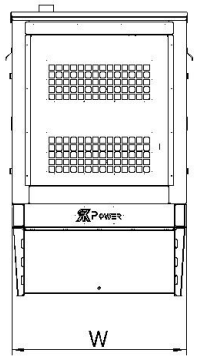
DSE7320 MKII is an Auto Start Control Module and is an Auto Mains (Utility) Failure Control Module suitable for a wide variety of single, diesel or gas, gen-set applications. Featuring a new Dual Core main processor and extended memory, the module provides faster and more powerful processing power, returning faster operational responses on intensive applications and increased functionality, with data logging facility. Monitoring an extensive number of engine parameters, the module will display warnings, shutdown and engine, alternator status information on the back-lit LCD screen, illuminated LED's, remote PC's and via SMS text alerts (with external communication device).

1. Control Module **DSE7320 MKII**
2. Alarm Buttom
3. Enclosure **Galvanneal**
4. Battery Charger **DEEPSEA**

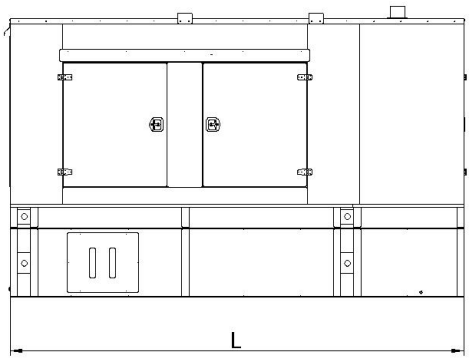
COMPARISOR	DSE4520 MKII	DSE6320 MKII	DSE7320 MKII	DSE8620 MKII
GENSET AND MAIN READING				
Voltage between PH-PH / N-PH	Yes	Yes	Yes	Yes
PF, Hz, kVA, kW, kVAR, A	Yes	Yes	Yes	Yes
ENGINE READING AND ALARM				
High coolant temperature	Yes	Yes	Yes	Yes
Low oil pressure, coolant level, fuel level	Yes	Yes	Yes	Yes
Unexpected shutdown and Stop failure	Yes	Yes	Yes	Yes
Low battery Voltage	Yes	Yes	Yes	Yes
Battery charging alternator failure	Yes	Yes	Yes	Yes
Over and under speed	Yes	Yes	Yes	Yes
Start failure and emergency stop	Yes	Yes	Yes	Yes
ALTERNATOR READING AND ALARM				
Overload, Over and Under Frequency	Yes	Yes	Yes	Yes
Over, Under and Unbalanced voltage	Yes	Yes	Yes	Yes
Short circuit and reverse power	Yes	Yes	Yes	Yes
CONNECTIVITY AND PARALLEL				
USB, ECU	Yes	Yes	Yes	Yes
RS232	No	No	Yes	Yes
RS485, DSENET	No	Yes	Yes	Yes
USB HOST, Ethernet RJ45	No	No	No	Yes
Parallel function	No	No	No	Yes

Dimensions, Weight and **Sound Level**

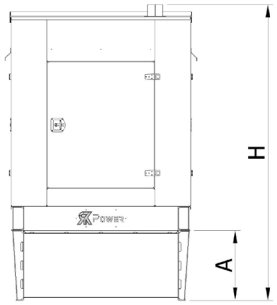
Level 2 | **Intake Air View**



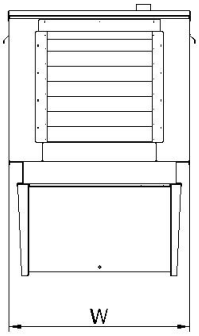
Level 2 | **Lateral View**



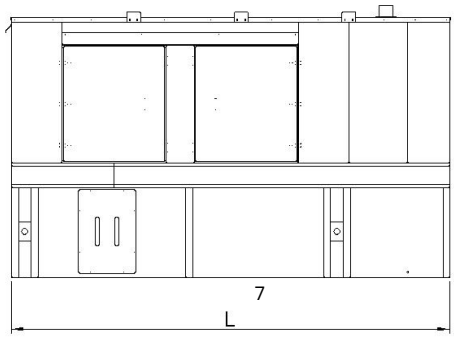
Level 2 | **Exhaust View**



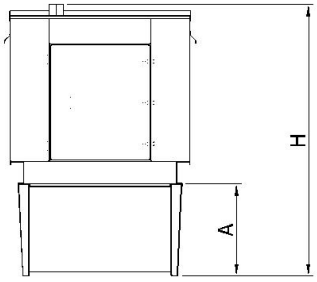
Level 3 | **Intake Air View**



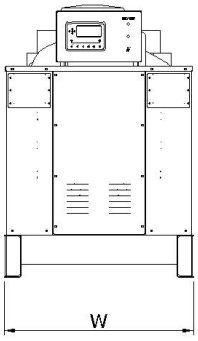
Level 3 | **Lateral View**



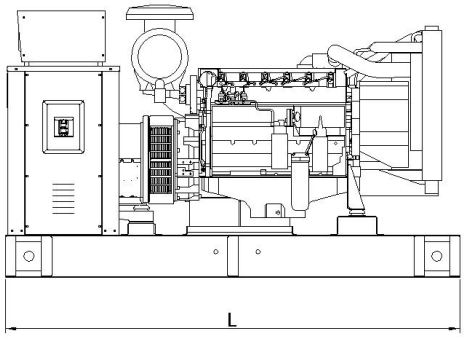
Level 3 | **Exhaust View**



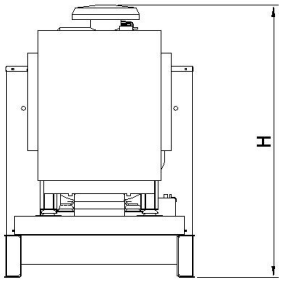
Opentype | **Control Panel View**



Opentype | **Lateral View**



Opentype | **Radiator View**



- Level 2 enclosures include sound attenuation foam (one layer).
- Level 3 enclosures include sound attenuation foam (two layers).
- Enclosure manufactured in **Aluminum** with a wind rating of **170 MPH**, according to **IBC 2018** and **ASCE/SEI7-16** standards.
- Generator assembly in accordance with **UL2200 listed.**

			Dimensions, in					Weight	Sound Level
Enclosure	**Fuel Tank**	**Autonomy (hr)**	**Length (L)**	**Width (W)**	**Height (H)**	**Tank (A)**	**Exhaust (Ø)**	**lb**	**dB(A)@23ft**
Level 3	1800USG	24	315	91	160	-	10	27000	76
Level 3	3600USG	48	315	91	180	-	10	28500	76
Level 2	1800USG	24	315	91	155	-	10	26000	84
Level 2	3600USG	48	315	91	175	-	10	27500	84
Opentype	-	-	200	91	98	-	10	21500	90

- 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)** in accordance with **ISO 8528-10.**
- **Double Wall** Fuel Tank manufactured in Steel accoding to **UL142 Listed.**

Standard **Features**

ENCLOSURE
- Aluminium Material
- Stainless steel door hinges
- Stainless steel lockable handles
- Polyurethane sound-attenuating foam
- Gasketed doors
- Rain protection visor

EXHAUST SYSTEM
- Galvanneal Material
- Rain Cap (Exhaust outlet)
- Critical Grade Muffler (enclosed only)
- Stainless Steel flexible exhaust connection

FUEL TANK
- Mild Steel Material
- Mechanical Fuel Gauge
- Internal wall drainage fitting
- External wall drainage fitting
- Spare: Coupling 1/2" NPT Suction / Return
- Spare: 2" NPT male nipple
- Spare: 2" NPT Female Coupling

ALTERNATOR
- Class H insulation material
- 2/3 Pitch
- PMG MX321

GENERATOR SET
- Internal Genset Vibration Isolation
- Emergency Stop Button
- Heavy Dutty Battery
- Standard Factory Test
- 2 years/2000 hours operational warranty

ENGINE
- Oil Drain Valve
- Coolant Drain Valve
- Flexible Fuel Line - NPT Connection
- Air cleaner
- SAE 00-18

Configurable **Options**

GENERATOR SET
- Mobile Type
- Antiseismic Isolators

ENCLOSURE
- Stainless Steel Material
- Removable Doors

FUEL TANK
- Stainless Steel Material
- Digital Fuel Gauge
- Low / High Fuel Alarms
- Rupture Switch
- External Main Fuel Tank
- External Daytank

EXHAUST SYSTEM
- Stainless Steel Material Muffler
- Critical Exhaust Muffler (Open Set Only)

ELECTRICAL SYSTEM
- Battery Charger 2 units parallel for 10A

ENGINE
- Kit Spare Parts
- Fluid Containment Pan

ALTERNATOR
- Upsize Alternator
- Droop CT for Parallelism
- Heater anticondensation 120V
- AVR Digital

CIRCUIT BREAKER
- Motorized Circuit Breaker for Parallelism

CONTROL SYSTEM
- DSE8620 - Parallel controller
- DSE890 - Remote Communication
- Remote Annunciator

AUTOMATIC TRANSFER SWITCH (ATS)
- Switch 100-3000A
- Enclosure NEMA 3R / Galvanneal
- Enclosure NEMA 4X / Stainless Steel
- Enclosure NEMA 1

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