



MODEL
RKULSTD 800M

| | | | |
|-------------------|----------|-------------|--------------|
| Standby 800 kW | 60 Hz | 1800 RPM | EPA Tier2 |
|-------------------|----------|-------------|--------------|

 Stationary **Generator**


Referential Image

RATINGS

| | | 120/208V | 120/240V | 277/480V |
|--------------------------|-------------------|----------------------|----------------------|--------------------|
| Voltage (L-N/L-L) | | 120/208V | 120/240V | 277/480V |
| Phase | | 3PH | 3PH | 3PH |
| Power factor | Cos Phi | 0.8 | 0.8 | 0.8 |
| Frequency | Hz | 60 | 60 | 60 |
| Controlor | Deep Sea | 7320 MKII | 7320 MKII | 7320 MKII |
| Engine | mitsubishi | S12A2 Y2PTAW-2 | S12A2 Y2PTAW-2 | S12A2 Y2PTAW-2 |
| Alternator | Stamford | S6LID-D | S6LID-D | S6LID-D |
| Leads Connection | | 12 Lead Parallel Wye | 12 Lead Series Delta | 12 Lead Series Wye |

STANDBY

| | | | | |
|-----------------|------------|------|------|------|
| Power | kW | 800 | 800 | 800 |
| Power | kVA | 1000 | 1000 | 1000 |
| Amperage | A | 2779 | 2408 | 1204 |

PRIME

| | | | | |
|-----------------|------------|------|------|------|
| Power | kW | 730 | 730 | 730 |
| Power | kVA | 913 | 913 | 913 |
| Amperage | A | 2533 | 2195 | 1098 |

Certifications and Standards

- Not all codes and standards apply to all configurations. Contact factory for details.
- 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)
 - NFPA 37, 70, 99, 110 - optional (Standards governing the installation, operation, safety and reliability of generators)
 - ISO 3046, 8528, SAE J1349 (Refers to the performance, power and measurement of the internal combustion engine and generators)
 - NEMA MG 1, UL489 - (Refers to alternators and Circuit Breakers)
 - 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

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.

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.

Continuous Power (COP): According to ISO 8528-1:2018, COP 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 | Electronic | Velocity | 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 O) | 10(40) |
| Exhaust Gas Flow | m3/min (CFM) | 114(4044) |
| Gas temp. (stack) | °C (°F) | 495(923) |

COOLING SYSTEM

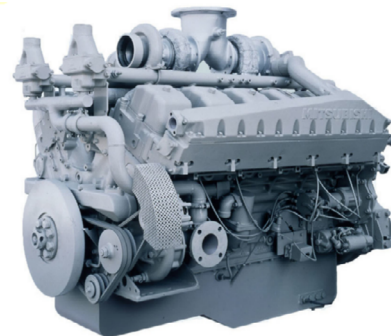
| | | |
|---------------------|---------|----------|
| Coolant capacity | L (gal) | 406(107) |
| Ambient Temp. Rad. | °C (°F) | 50(122) |
| Recommended coolant | 50/50 | |

ELECTRIC SYSTEM

| | | |
|----------|------|----|
| Starting | Volt | 24 |
|----------|------|----|

FUEL CONSUMPTION

| | | STANDBY | PRIME |
|--------------|---------------|-----------|-------|
| At 100% load | L/hr (gal/hr) | 244(64.3) | TBD |
| At 75% load | L/hr (gal/hr) | 170(45) | TBD |
| At 50% load | L/hr (gal/hr) | 117(31) | TBD |



Alternator Specifications

GENERAL INFORMATION

| | |
|------------------------------|----------------------------|
| Manufacturer | Stamford |
| Models | S6LID-D |
| Design | 4 Poles IP23 |
| Temp. Rise Insulation Type | Standby 150/40°C Class H |
| Exciter system AVR | PMG MX321 (+/-1%) |

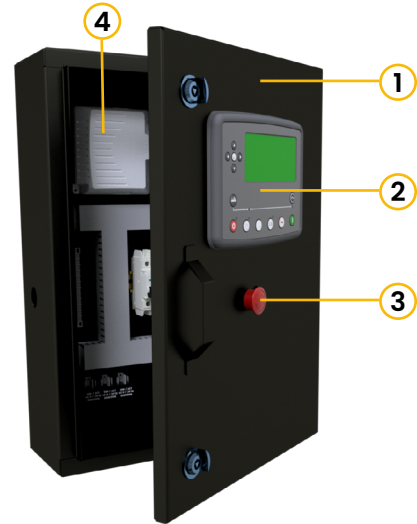


Control Panel Specifications

DSE7320 MKII Auto Start Control Module and Auto Mains Failure Control Module for diesel or gas generator set applications. It features a Dual Core processor, extended memory, and data logging, providing higher speed and functionality. Monitors multiple engine and alternator parameters, displaying alarms and status on a backlit LCD screen, LEDs, remote PC, or via SMS (with external communication device). Allows programming of 4 additional LED alarms.



1. Enclosure Galvanneal
2. Control Module
3. Emergency Button
4. Battery Charger

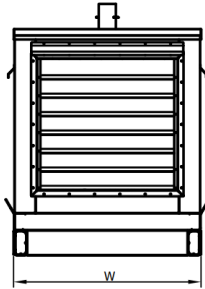


Referential Image

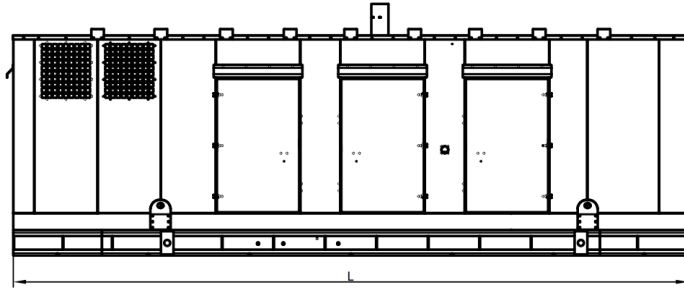
| COMPARISOR | DSE4520 | DSE6320 | DSE7320 | DSE7420 | DSE8620 |
|--|---------|---------|---------|---------|---------|
| GENERAL | | | | | |
| PIN protection / Multiple Languages | Yes | Yes | Yes | Yes | Yes |
| Generator run-time scheduler | Yes | Yes | Yes | Yes | Yes |
| GENSET AND MAIN READING | | | | | |
| Voltage between PH-PH / N-PH | Yes | Yes | Yes | Yes | Yes |
| PF, Hz, Kva, Kw, KVAR, A | Yes | Yes | Yes | Yes | Yes |
| ENGINE READING AND ALARM | | | | | |
| High coolant temperature | Yes | Yes | Yes | Yes | Yes |
| Low oil pressure, coolant level, fuel level | Yes | Yes | Yes | Yes | Yes |
| Unexpected shutdown and Stop failure | Yes | Yes | Yes | Yes | Yes |
| Low battery Voltage | Yes | Yes | Yes | Yes | Yes |
| Battery charging alternator failure | Yes | Yes | Yes | Yes | Yes |
| Over and under speed | Yes | Yes | Yes | Yes | Yes |
| Start failure and emergency stop | Yes | Yes | Yes | Yes | Yes |
| ALTERNATOR READING AND ALARM | | | | | |
| Overload, Over and Under Frequency | Yes | Yes | Yes | Yes | Yes |
| Over, Under and Unbalanced voltage | Yes | Yes | Yes | Yes | Yes |
| Short circuit and reverse power | Yes | Yes | Yes | Yes | Yes |
| CONNECTIVITY AND PARALLEL | | | | | |
| USB, ECU | Yes | Yes | Yes | Yes | Yes |
| RS232 | No | No | Yes | Yes | Yes |
| RS485, DSENET | No | Yes | Yes | Yes | Yes |
| DSENET Expansion | Yes | Yes | Yes | Yes | Yes |
| USB Host, Ethernet RJ45 | No | No | No | Yes | Yes |
| Parallel function | No | No | No | No | Yes |

Dimensions, Weight and Sound Level

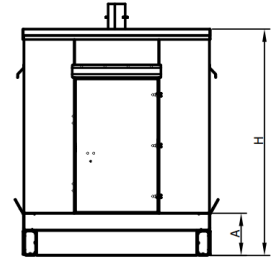
Level 3 | Back View



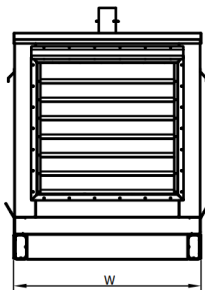
Level 3 | Lateral View



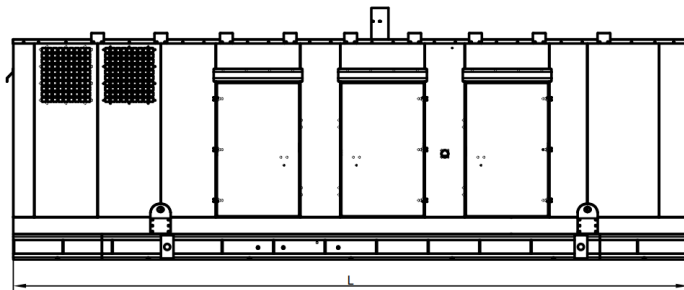
Level 3 | Front View



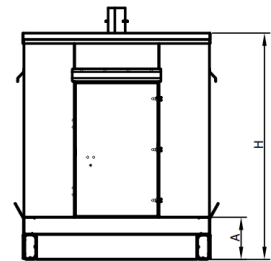
Level 2 | Back View



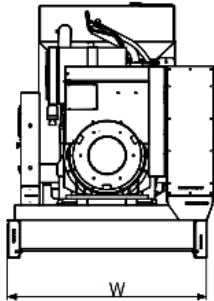
Level 2 | Lateral View



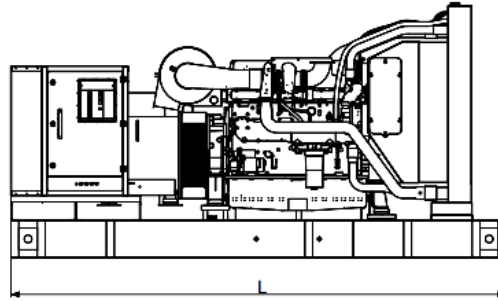
Level 2 | Front View



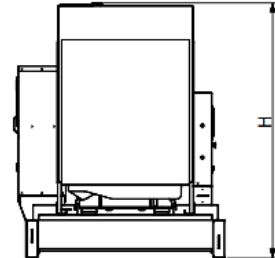
Opentype | Back View



Opentype | Lateral View



Opentype | Front View



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

| Enclosure | Fuel Tank | Autonomy (hr) | Dimensions, in | | | | | Weight lb | Sound Level dB(A)@7m |
|-----------|----------------|---------------|----------------|-----------|------------|----------|-------------|--------------|-------------------------|
| | | | Length (L) | Width (W) | Height (H) | Tank (A) | Exhaust (Ø) | | |
| Level 3 | 1800USG | 24 | 315 | 87 | 135 1/2 | - | 10 | 27000 | 79 +/-2 |
| Level 3 | 3600USG | 48 | 315 | 87 | 157 | - | 10 | 28500 | 79 +/-2 |
| Level 2 | 1800USG | 24 | 315 | 87 | 135 1/2 | - | 10 | 26000 | 84 +/-2 |
| Level 2 | 3600USG | 48 | 315 | 87 | 157 | - | 10 | 27500 | 84 +/-2 |
| Opentype | 300USG Daytank | 5 | 200 | 86 | 105 | - | 10 | 22000 | 91 +/-2 |
| Opentype | - | - | 200 | 86 | 99 | - | 10 | 21500 | 91 +/-2 |

- 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 according to **UL142 Listed**.

Wire Connections

| Voltage (Vac) | Phase | Terminal | Lug Qty per Terminal | Qty Wire x Max. Wire Size |
|---------------|-------|----------|----------------------|---------------------------|
| 120/208 | 3P | R-S-T | 2 | 4x500KCMIL |
| 120/208 | 3P | N-G | 1 | 4x500KCMIL |
| 120/240 | 3P | R-S-T-N | 2 | 4x500KCMIL |
| 120/240 | 3P | Ground | 1 | 2x500KCMIL |
| 277/480 | 3P | R-S-T | 1 | 4x500KCMIL |
| 277/480 | 3P | Neutral | 1 | 4x500KCMIL |
| 277/480 | 3P | Ground | 1 | 2x500KCMIL |

- Do not exceed this value - may cause damage to the equipment, voiding warranty.

Standard Features

ENCLOSURE

- Aluminium Material
- Stainless steel door hinges
- Stainless steel lockable handles
- Soundproofing foam
- Gasketed doors
- Rain protection visor

EXHAUST SYSTEM

- Galvanneal Material
- Rain Cap (Exhaust outlet)
- Stainless Steel flexible exhaust connect.

FUEL TANK

- Mild Steel Material
- Mechanical Fuel Gauge
- Fitting drainage internal wall
- Fitting drainage external wall
- Spare: 2" NPT male nipple
- Spare: 2" NPT Female Coupling

ALTERNATOR

- Class H insulation material
- Brushless Excitation
- 2/3 Pitch

ELECTRICAL SYSTEM

- Battery Charger 24V 5A

GENERATOR SET

- Internal Genset Vibration Isolation
- Emergency Stop Button
- Standard Factory Test
- 2 years/2000 hours operational warranty

ENGINE

- Oil Drain Valve
- Coolant Drain Valve
- Air Cleaner
- Flexible Fuel Line - NPT Connection
- Air cleaner

Configurable Options

GENERATOR SET

- Mobile Type
- Seismic isolator
- Special Testing
- Special Dimensions
- External emergency button
- Diesel Pump Transfer

ENCLOSURE

- Stainless Steel Material
- Removable Doors
- Up to 200 MPH Wind Load Rating*
(Consult Factory for Availability)

FUEL TANK

- Special Dimensions / Capacity
- 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
- Muffler on enclosure

ELECTRICAL SYSTEM

- Battery Charger 2 units parallel for 10A
- Battery charger NFPA110 compliance

ENGINE

- Kit Spare Parts
- Fluid Containment Pan

ALTERNATOR

- Upsize Alternator
- AVR Digital
- Anti-Condensation Heater
- Droop CT for Parallelism
- Topical Alternator Coating

CIRCUIT BREAKER

- Electronic: trip unit 40-100% rated
- Motorized Circuit Breaker for Parallelism
- 2 Circuit Breakers

CONTROL SYSTEM

- DSE8620/DSE8610 - Parallel controller
- DSE7420 - Control Module
- DSE890 - Remote Communication
- DSE855 - USB to Ethernet Adapter
- DSE2548/DSE7320 Remote Annunciator

AUTOMATIC TRANSFER SWITCH (ATS)

- Switch 100-3000A
- Enclosure NEMA 3R / Galvanneal
- Enclosure NEMA 4X / Stainless Steel
- Enclosure NEMA 1 / Galvanneal
- Enclosure NEMA 12 / Galvanneal
- ATS + Breaker