



ENERGY THAT MOVES THE WORLD

Motores Diesel Andinos S. A.

Looking back at **49 years** of hard work.

2021

Modasa expands its commercial activities and opens its first own sales office and service workshop in Bogotá, Colombia.

2022

Sales consolidation to the US market, becoming our main place of export.

2023

Modasa reach and achieve the UL 142 certification for Sub-base tanks and external tanks applied to generators use.

2020

Modasa built the first electric bus in South America.

2019

Modasa moves forward and achieves UL 2200 certification, which guarantees safety and quality standards of MODASA.

2018

Modasa achieves the ISO 9001:2015 standard and the AEO certification.

2017

Modasa opens its first factory in foreign territory, Belo Horizonte, Brazil.

2008

Modasa opened a new plant in Lurin, currently with an area greater than 100 000 m².

2009

Modasa achieves ISO 9001:2008 certification.

2010

Modasa won the tender-out, from the Government to manufacture all the buses for the Metropolitan Line, the largest net of public transportation in Peru.

2011

Modasa consolidated the leading of exporting generator sets to South America.

2006

Modasa manufactured the first natural gas urban bus, which has been sold over 2000 units to this day. Also, MODASA became a 100% private company.

2003

Modasa began exporting generator sets to Central America.

2000

Modasa started the production of bus bodies for assembled chassis from Agrale, Scania, Volkswagen, and other brands of world prestige. Achieving to be the company with greater sells of bodyworks at national level.

1998

Modasa opened a plant in Lima, and started to diversify the production with chassis assembly and vehicle maintenance service.

1974

Modasa is established as a state-owned enterprise, with capital from AB Volvo (Sweden) and Perkins Engines Limited (England).

1977

Modasa begins operations in the city of Trujillo, licensed by Volvo and Perkins, started the production of these diesel engines brands. Also, ceased being a public company due to increased capital from private investors.

1990

Modasa began the manufacture and mass production of generator sets, becoming the leader of the sector in Peru until today.

1991

Modasa started exporting generator sets to South America.



TODAY

MODASA's facilities cover more than 120 000 m², including factories and subsidiaries. The company has an annual production capacity of up to 8000 generators ranging from 8kW to 2500kW. In addition, it represents Perkins, Volvo and is an authorized distributor for Mitsubishi within Peru.

International Presence

MODASA is strategically located in 21 countries, providing energy solutions that enable its customers to successfully carry out their projects.

Our main office is in Lima – Peru, in addition to having commercial offices in Brasil, Colombia and Mexico.

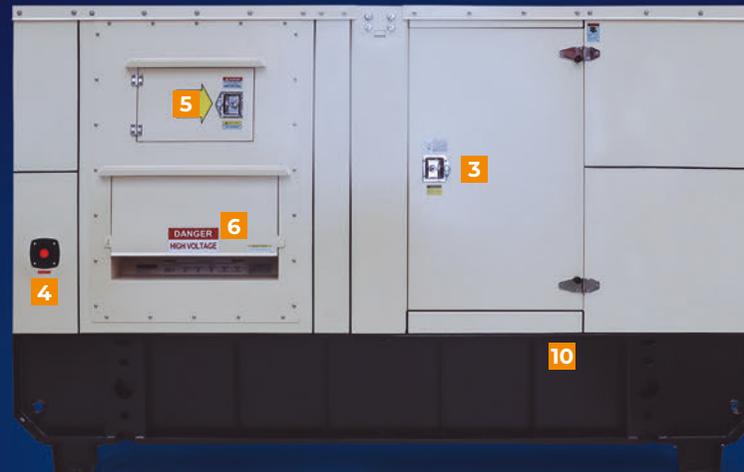
MODASA has grown and is characterized by offering solutions tailored to each customer's needs and by the flexibility of its production.

In each of the years briefly recounted, there are hundreds of incredible stories that have turned MODASA into a Peruvian reference for the world and have earned it the admiration and respect of all its customers. Today it is highly regarded for its quality and prestige.

EXTERNAL FEATURES - RENTAL MODASA



Electric Distribution Side



Control Side



Maintenance and Air Scoops Side



1. Acoustic Deflectors, attenuates noise.
2. Control Panel
3. Stainless Lock
4. Emergency Stop
5. Easy access to bronze terminals
6. Electrical Distribution Panel
7. External fuel and DEF filler
8. Emergency stop push button
9. Lifting point
10. Skid with fuel tank*

* Modasa develops, designs, manufactures and tests its own skids with fuel tanks, as well as enclosures. Adding the possibility of customization to our entire rental range of generators sets.

ELECTRICAL DISTRIBUTION FEATURES - RENTAL MODASA



UL Breaker



Emergency Stop Push Button



Switch Voltage Selector
Mounted on a box above the alternator with automatic shut-off when the door is opened.



Bronze Terminal Lugs



Sets of camlocks



GFCI Outlets
Electrical Twist locks
Flange outlets
Minibreakers for control



Control module
Alarm lights
Voltage Rheostat
Switch for lights



Panel with LED Light



Battery



STANDARD SPECIFICATION

🔧 Engine

- Four and six strokes, water cooled
- 12V or 24V DC, starter and charge alternator
- Cooling radiator and fan
- Free maintenance batteries, including rack & cables
- Flexible fuel connection hoses and manual oil sump drain valve
- Replaceable fuel filter, oil filter and dry element air filter



Perkins 1206J-E70TTAG3



FPT F34



Volvo TWD 1672GE

⚡ Alternator

- Brushless, single bearing, flexible disc
- Insulation, class H and protection class IP23
- Self-exciting, Aux-winding and PMG



Stamford S4LID-F41

📺 Control unit

- Include Deep Sea control module
- Displays a full range of status readings on the digital screen, including: Voltage, frequency, power rating, pressure and engine temperature
- Displays aftertreatment parameters (Only on engines with SCR) like: DEF Level and Low level DEF Alarms.
- Communication ports RJ-45, RS-485 or RS-232
- Communication protocols like Modbus, SMP V2, Bacnet



Deep Sea 7320 MKII

🛢️ Base fuel tank

- Base fuel tank with forklifting port and crane port, easy to move and transport
- Base fuel tank are double walled for all models, with the optional to have a singlewalled fuel tank.
- Autonomy from 8 to 24 hours 100% load power. (According to customer needs between the ranges of the engine DEF capacities)
- Rubber anti-vibration engine and alternator mounts.
- Built-in fluid containment protects against ground contamination from leaks, spills and drips.



Fuel Tank MP-165E41

STANDARD SPECIFICATION

Enclosure

- All enclosure parts designed with modular principles
- Water proof design ensures that the generator set can work in outdoor for long periods of time
- All the lock and screws by stainless steel type for anti rust proof
- Fuel and DEF filler doors
- Sound insulation with non-flamable foam
- Enclosure made of Steel or Aluminum
- Lifting points in the roof to make more easy the transport
- Limit ambient capabilities above 118°F (48°C)
- Easy maintenance and operation
- Earthing included
- Exhaust muffler based on DOC or SCR, depending of the engine.



Genset accessories

- Electric and mechanical fuel gauges
- Battery charger
- Emergency stop push button
- Anti-spill sensor
- Battery main switch
- Rheostat for voltage regulation
- 3-way valve



Battery Charger



Main switch



Emergency stop push button



Coolant heater

Electric distribution panel*

- 4, 3 or 2 voltage selector switches
- Sets of camlocks according to the customer needs.
- Sets of terminal lugs according to the customer needs.
- Set of electrical twist locks 2x50A
- Set of GFCI outlets 1x20A
- Set of flanged inlets for battery charger and coolant heater.



*Our distribution panel is capable to be modified thinking in the customer needs, request more info with us.

MODASA RENTAL LINE UP

The quality of our generator sets powered by Perkins, Hatz and Volvo engines are the product of many years of development, based on the market necessity. This development is carried out by Modasa, from the engine selection stage, through design, prototypes, manufacturing, testing and application review, in order to ensure the best product to be delivered.

The power range is from 8kW to 620kW.

Modasa • Rental Version

| Model | MP-08E4IR | MP-12E4IR | MH-25E4IR | MH-45E4IR | MP-110E4IR | MP-165E4IR | MP-210E4IR | |
|---|-------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| ⓘ Power Rating | | | | | | | | |
| Prime | 208V-3Ph, 0.8PF, 60Hz * | 7.0 | 10.3 | 27.4 | 35.0 | 100.0 | 146.0 | 193.0 |
| Power | 480V-3Ph, 0.8PF, 60Hz * | 7.0 | 10.3 | 27.4 | 35.0 | 100.0 | 146.0 | 195.0 |
| Rating | 240V-1Ph, 1.0PF, 60Hz * | 6.4 | 9.6 | 25.6 | 34.0 | 95.0 | 140.0 | 193.0 |
| Stand by | 208V-3Ph, 0.8PF, 60Hz * | 7.7 | 11.5 | 31.1 | 39.0 | 111.0 | 161.0 | 213.0 |
| Power | 480V-3Ph, 0.8PF, 60Hz * | 7.7 | 11.5 | 31.0 | 39.0 | 111.0 | 162.0 | 214.0 |
| Rating | 240V-1Ph, 1.0PF, 60Hz * | 7.1 | 10.7 | 28.2 | 37.0 | 105.0 | 150.0 | 212.0 |
| Voltage Configuration | 3-Position Switch | 3-Position Switch | 3-Position Switch | 3-Position Switch | 3-Position Switch | 3-Position Switch | 3-Position Switch | 3-Position Switch |
| 🔧 Engine | | | | | | | | |
| Engine Make | Perkins | Perkins | Hatz | Hatz | Perkins | Perkins | Perkins | |
| Engine Model | 403F-11G | 403F-15G | 3H50TIC | 4H50TIC | 1204J-E44TTAG2 | 1206J-E70TTAG3 | 1206J-E70TTAG4 | |
| Displacement - L | 1.1 | 1.5 | 1.5 | 2.0 | 4.4 | 7.0 | 7.0 | |
| Number of Cylinders | 3 | 3 | 3 | 4 | 4 | 6 | 6 | |
| Power Output @1800RPM - kWm | 9.8 | 14.0 | 34.9 | 45.2 | 129.1 | 184.0 | 238.2 | |
| Emissions Tier Level | Tier 4 Final | Tier 4 Final | Tier 4 Final | Tier 4 Final | Tier 4 Final | Tier 4 Final | Tier 4 Final | |
| Aftertreatment Technology | N/A | N/A | DOC | DOC | DOC+DPF+SCR | DOC+DPF+SCR | DOC+DPF+SCR | |
| Usable Fuel Tank Capacity - Gal | 48.0 | 48.0 | 60.0 | 70.0 | 180.0 | 210.0 | 210.0 | |
| Diesel Exhaust Fluid (DEF) Capacity - Gal | N/A | N/A | N/A | N/A | 7.3 | 8.4 | 8.4 | |
| Runtime @100% Load - Hr | 65.0 | 47.0 | 38.0 | 32.0 | 24.9 | 19.4 | 14.7 | |
| 🔌 Alternator | | | | | | | | |
| Alternator Make | Stamford | Stamford | Stamford | Stamford | Stamford | Stamford | Stamford | |
| Alternator Model | SOL1-H1 | SOL1-P1 | S1L2-J1 | S1L2-R1 | UCI-274D | UCI-274G | UCI-274H | |
| Class - Temp Rise (Prime) | 125/40°C | 125/40°C | 125/40°C | 125/40°C | 125/40°C | 125/40°C | 125/40°C | |
| Sistema de excitación | Aux. Winding | Aux. Winding | Aux. Winding | Aux. Winding | PMG | PMG | PMG | |
| A.V.R. rango de regulación | 1% | 1% | 1% | 1% | 1% | 1% | 1% | |
| 📏 Dimensions | | | | | | | | |
| Length - in(mm) | 70.8 (1800) | 70.8 (1800) | 76.8 (1950) | 83.5 (2122) | 133.9 (3400) | 146.9 (3800) | 146.9 (3800) | |
| Width - in(mm) | 37.4 (950) | 37.4 (950) | 37.4 (950) | 37.4 (950) | 43.3 (1100) | 43.3 (1100) | 43.3 (1100) | |
| Height - in(mm) | 59.1 (1500) | 59.1 (1500) | 61.0 (1550) | 61.0 (1550) | 92.9 (2360) | 96.5 (2450) | 96.5 (2450) | |
| Weight - lb(kg) ** | 2866.5 (1300) | 3087 (1400) | 3197.3 (1450) | 3417.8 (1550) | 5071.5 (2300) | 6394.5 (2900) | 6879.6 (3120) | |
| Sound Level @23ft (7m) and 0% Load *** | 75 +/- 5 dBa | 75 +/- 5 dBa | 75 +/- 5 dBa | 75 +/- 5 dBa | 80 +/- 5 dBa | 80 +/- 5 dBa | 80 +/- 5 dBa | |

*Reference powers shown with Stamford alternators, for more details, request the technical datasheet of the generator set.

** Reference weights shown. / *** Reference sound level shown.

Modasa • Rental Version

| Model | | MV-245E4IR | MV-270E4IR | MV-305E4IR | MV-330E4IR | MV-405E4IR | MV-555E4IR |
|---|-------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| ⓘ Power Rating | | | | | | | |
| Prime | 208V-3Ph, 0.8PF, 60Hz * | 222.0 | 250.0 | 274.0 | 301.0 | 364.0 | 505.0 |
| Power | 480V-3Ph, 0.8PF, 60Hz * | 224.0 | 250.0 | 275.0 | 302.0 | 367.0 | 505.0 |
| Rating | 240V-1Ph, 1.0PF, 60Hz * | N/A | N/A | N/A | N/A | N/A | N/A |
| Stand by | 208V-3Ph, 0.8PF, 60Hz * | 244.0 | 274.0 | 300.0 | 331.0 | 400.0 | 556.0 |
| Power | 480V-3Ph, 0.8PF, 60Hz * | 246.0 | 272.0 | 305.0 | 332.0 | 405.0 | 556.0 |
| Rating | 240V-1Ph, 1.0PF, 60Hz * | N/A | N/A | N/A | N/A | N/A | N/A |
| Voltage Configuration | | 2-Position Link Board |
| 🔧 Engine | | | | | | | |
| Engine Make | | Volvo | Volvo | Volvo | Volvo | Volvo | Volvo |
| Engine Model | | TAD 1371VE | TAD 1372VE | TAD 1373VE | TAD 1374VE | TAD 1671VE | TWD 1672GE |
| Displacement - L | | 13.0 | 13.0 | 13.0 | 13.0 | 16.0 | 16.0 |
| Number of Cylinders | | 6 | 6 | 6 | 6 | 6 | 6 |
| Power Output @1800RPM - kWm | | 285.0 | 315.0 | 345.0 | 375.0 | 450.0 | 615.0 |
| Emissions Tier Level | | EPA Tier 4 Final |
| Aftertreatment Technology | | EGR + SCR | SCR |
| Usable Fuel Tank Capacity - Gal | | 440.0 | 485.0 | 525.0 | 570.0 | 760.0 | 610.0 |
| Diesel Exhaust Fluid (DEF) Capacity - Gal | | 42.0 | 42.0 | 42.0 | 42.0 | 42.0 | 42.0 |
| Runtime @100% Load - Hr | | 24.0 | 24.0 | 24.0 | 24.0 | 27.2 | 16.4 |
| 🔌 Alternator | | | | | | | |
| Alternator Make | | Stamford | Stamford | Stamford | Stamford | Stamford | Stamford |
| Alternator Model | | S4L1D-C41 | S4L1D-D41 | S4L1D-D41 | S4L1D-E41 | S4L1D-F41 | HCI-534F |
| Class - Temp Rise (Prime) | | 125/40°C | 125/40°C | 125/40°C | 125/40°C | 125/40°C | 125/40°C |
| Sistema de excitación | | PMG | PMG | PMG | PMG | PMG | PMG |
| A.V.R. rango de regulación | | 1% | 1% | 1% | 1% | 1% | 1% |
| 📏 Dimensions | | | | | | | |
| Length - in(mm) | | 196.9 (5000) | 196.9 (5000) | 196.9 (5000) | 196.9 (5000) | 196.9 (5000) | 196.9 (5000) |
| Width - in(mm) | | 78.7 (2200) | 78.7 (2200) | 78.7 (2200) | 78.7 (2200) | 78.7 (2200) | 78.7 (2200) |
| Height - in(mm) | | 102.4 (2600) | 102.4 (2600) | 102.4 (2600) | 102.4 (2600) | 102.4 (2600) | 102.4 (2600) |
| Weight - lb(kg) ** | | 7795.3 (3535) | 8413.1 (3815) | 9030.8 (4096) | 9648.6 (4376) | 10884.1 (4936) | 12119.7 (5496) |
| Sound Level @23ft (7m) and 0% Load *** | | 80 +/- 5 dBa |

*Reference powers shown with Stamford alternators, for more details, request the technical datasheet of the generator set.

** Reference weights shown. / *** Reference sound level shown.

FPT RENTAL LINE UP

FPT Industrial engines comply with all emissions legislation around the world, always guaranteeing advantages in terms of performance and efficiency, even in the most stringent cases. Regulations through patented HI-eSCR technology. The revolutionary HI-eSCR Tier 4 Final technology, based on more than 25 years of experience and 1,000,000 units produced, allows our engines to meet Tier4 Final standards, ensuring the highest NOX conversion efficiency (more 95% compared to 80-85% of the best competitors) with a maintenance-free system. The evolution from HI-eSCR Tier 4 Final to HI-eSCR2 makes FPT Industrial motors compliant with Tier4 Final and Stage V regulation, still delivering best-in-class performance and total cost of ownership results.

The power range is from 32kW to 380kW.

Modasa - FPT • Rental Version

| Model | MF-32E4IR | MF-45E4IR | MF-63E4IR | MF-78E4IR | MF-110E4IR | MF-170E4IR | |
|---|-----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| ⓘ Power Rating | | | | | | | |
| Prime | 208V-3Ph, 0.8PF, 60Hz | 29.5 | 40.9 | 57.6 | 73.6 | 100.0 | 155.3 |
| Power | 480V-3Ph, 0.8PF, 60Hz | 29.4 | 41.3 | 58.0 | 74.1 | 100.9 | 156.2 |
| Rating | 240V-1Ph, 1.0PF, 60Hz | 25.6 | 37.5 | 54.0 | 62.5 | 78.8 | 123.4 |
| Stand by | 208V-3Ph, 0.8PF, 60Hz | 31.6 | 45.9 | 63.4 | 78.5 | 109.8 | 170.4 |
| Power | 480V-3Ph, 0.8PF, 60Hz | 32.4 | 46.4 | 63.9 | 82.0 | 110.8 | 172.1 |
| Rating | 240V-1Ph, 1.0PF, 60Hz | 27.7 | 42.0 | 59.4 | 66.3 | 83.5 | 130.8 |
| Voltage Configuration | 3-Position Switch | 3-Position Switch | 3-Position Switch | 3-Position Switch | 3-Position Switch | 3-Position Switch | 3-Position Switch |
| 🔧 Engine | | | | | | | |
| Engine Model | F34ESZW01.A37** | F34ESZW01.55A00 | F34ETZK02.A73 | F34ETZK02.A93 | N45ENTZW69.01 | N67ENTZW68.01 | |
| Displacement - L | 3.4 | 3.4 | 3.4 | 3.4 | 4.5 | 6.7 | |
| Number of Cylinders | 4 | 4 | 4 | 4 | 4 | 6 | |
| Power Output @1800RPM - kWm | 37.0 | 55.0 | 73.0 | 93.0 | 126.0 | 195.0 | |
| Emissions Tier Level | EPA Tier 4 Final | EPA Tier 4 Final | EPA Tier 4 Final | EPA Tier 4 Final | EPA Tier 4 Final | EPA Tier 4 Final | |
| Aftertreatment Technology | N/A | N/A | DOC + SCR | DOC + SCR | DOC + SCR | DOC + SCR | |
| Usable Fuel Tank Capacity - Gal | 59.3 | 87.6 | 101.6 | 101.6 | 171.6 | 190.9 | |
| Diesel Exhaust Fluid (DEF) Capacity - Gal | 0.0 | 0.0 | 5.3 | 5.3 | 17.2 | 17.2 | |
| Runtime @100% Load - Hr | 24.0 | 24.0 | 23.4 | 18.1 | 24.0 | 17.6 | |
| 🔌 Alternator | | | | | | | |
| Alternator Make | Stamford | Stamford | Stamford | Stamford | Stamford | Stamford | |
| Alternator Model | S1L2-J1 | UCI-224D | UCI-224F | UCI-224G | UCI-274D | UCI-274G | |
| Class - Temp Rise | 125/40°C | 125/40°C | 125/40°C | 125/40°C | 125/40°C | 125/40°C | |
| PMG | Yes | Yes | Yes | Yes | Yes | Yes | |
| A.V.R. | Yes | Yes | Yes | Yes | Yes | Yes | |
| 📏 Dimensions | | | | | | | |
| Length - in(mm) | 76.8 (1950) | 83.5 (2122) | 118.1 (3000) | 118.1 (3000) | 133.9 (3400) | 146.9 (3800) | |
| Width - in(mm) | 37.4 (950) | 37.4 (950) | 43.3 (1100) | 43.3 (1100) | 43.3 (1100) | 43.3 (1100) | |
| Height - in(mm) | 61.0 (1550) | 61.0 (1550) | 83.5 (2122) | 83.5 (2122) | 92.9 (2360) | 96.5 (2450) | |
| Weight - lb(kg)** | 3197.3 (1450) | 3417.8 (1550) | 4167.5 (1890) | 4167.5 (1890) | 5071.5 (2300) | 6394.5 (2900) | |
| Sound Level @23ft (7m) and 0% Load*** | 75 +/- 5 dBa | 75 +/- 5 dBa | 75 +/- 5 dBa | 75 +/- 5 dBa | 80 +/- 5 dBa | 80 +/- 5 dBa | |

*Reference powers shown with Stamford alternators, for more details, request the technical datasheet of the generator set.

** Reference weights shown. / *** Reference sound level shown.

Modasa - FPT • Rental Version

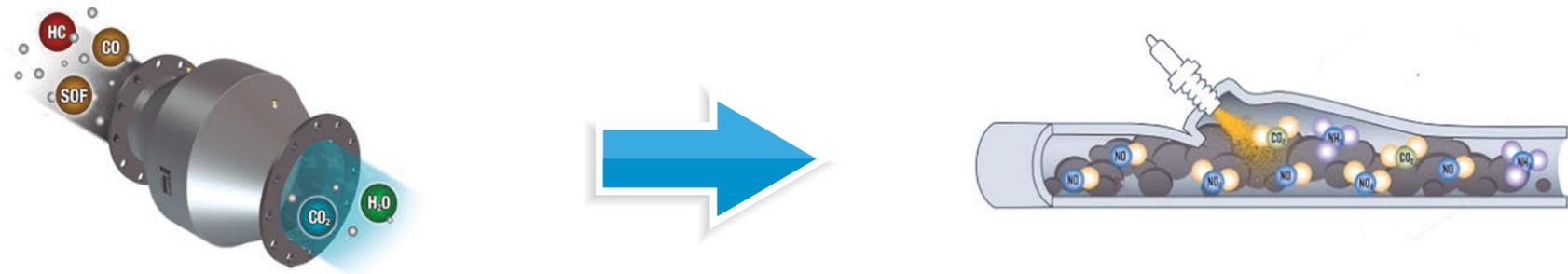
| Model | MF-200E4IR | MF-230E4IR | MF-300E4IR | MF-340E4IR | MF-380E4IR | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-------|
| ⓘ Power Rating | | | | | | |
| Prime | 208V-3Ph, 0.8PF, 60Hz | 186.6 | 209.9 | 270.4 | 307.4 | 344.6 |
| Power | 480V-3Ph, 0.8PF, 60Hz | 181.8 | 209.9 | 271.0 | 308.1 | 345.3 |
| Rating | 240V-1Ph, 1.0PF, 60Hz | 142.5 | 161 | N/A | N/A | N/A |
| Stand by | 208V-3Ph, 0.8PF, 60Hz | 198.6 | 230.4 | 298.1 | 339.7 | 380.8 |
| Power | 480V-3Ph, 0.8PF, 60Hz | 199.8 | 231.7 | 298.8 | 340.4 | 381.6 |
| Rating | 240V-1Ph, 1.0PF, 60Hz | 151.1 | 170.7 | N/A | N/A | N/A |
| Voltage Configuration | 3-Position Switch | 2-Position Link Board | 2-Position Link Board | 2-Position Link Board | 2-Position Link Board | |
| 🔧 Engine | | | | | | |
| Engine Model | N67ENTZW69.01 | C87ENTZW61.01 | C87ENTZW69.01 | C13ENTZW68.01 | C13ENTZW69.01 | |
| Displacement - L | 6.7 | 8.7 | 8.7 | 13.0 | 13.0 | |
| Number of Cylinders | 6 | 6 | 6 | 6 | 6 | |
| Power Output @1800RPM - kWm | 223.0 | 260.0 | 330.0 | 380.0 | 424.0 | |
| Emissions Tier Level | EPA Tier 4 Final | |
| Aftertreatment Technology | DOC + SCR | |
| Usable Fuel Tank Capacity - Gal | 190.9 | 237.8 | 237.8 | 343.0 | 343.0 | |
| Diesel Exhaust Fluid (DEF) Capacity - Gal | 17.2 | 21.4 | 21.4 | 35.7 | 35.7 | |
| Runtime @100% Load - Hr | 15.4 | 15.9 | 12.8 | 15.6 | 14.0 | |
| 🔧 Alternator | | | | | | |
| Alternator Make | Stamford | Stamford | Stamford | Stamford | Stamford | |
| Alternator Model | UCI-274H | UCDI-274J | S4L1D-E4I | S4L1D-F4I | S4L1D-F4I | |
| Class - Temp Rise | 125/40°C | 125/40°C | 125/40°C | 125/40°C | 125/40°C | |
| PMG | Yes | Yes | Yes | Yes | Yes | |
| A.V.R. | Yes | Yes | Yes | Yes | Yes | |
| 📏 Dimensions | | | | | | |
| Length - in(mm) | 146.9 (3800) | 196.9 (5000) | 196.9 (5000) | 196.9 (5000) | 196.9 (5000) | |
| Width - in(mm) | 43.3 (1100) | 78.7 (2200) | 78.7 (2200) | 78.7 (2200) | 78.7 (2200) | |
| Height - in(mm) | 96.5 (2450) | 102.4 (2600) | 102.4 (2600) | 102.4 (2600) | 102.4 (2600) | |
| Weight - lb(kg)** | 6879.6 (3120) | 7276.5 (3300) | 7795.3 (3535) | 8413.1 (3815) | 9030.8 (4096) | |
| Sound Level @23ft (7m) and 0% Load*** | 80 +/- 5 dBa | |

*Reference powers shown with Stamford alternators, for more details, request the technical datasheet of the generator set.

** Reference weights shown. / *** Reference sound level shown.

AFTERTREATMENT SYSTEM ON DIESEL ENGINES

The aftertreatment system cleans up particles and exhaust gases (nitrogen oxide), impacting performance as little as possible. Imagine an exhaust stream moving through the system. At each stage it's getting a little cleaner, because at each stage it's leaving some of its toxins behind.

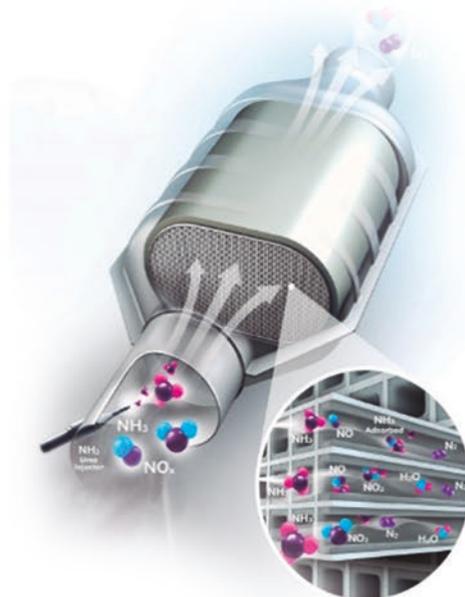


DOC: DIESEL OXYDATION CATALYST

The engine's exhaust first goes through the DOC where the exhaust gases are oxidized to control carbon monoxide and hydrocarbon emissions.

DEF INJECTION: DIESEL EXHAUST FLUID INJECTION

The next process is called DEF injection. DEF is a solution of urea and water that's injected into the exhaust stream to begin to transform the nitrous oxide (NO_x). It decomposes in the hot exhaust to form ammonia, water, and carbon dioxide.

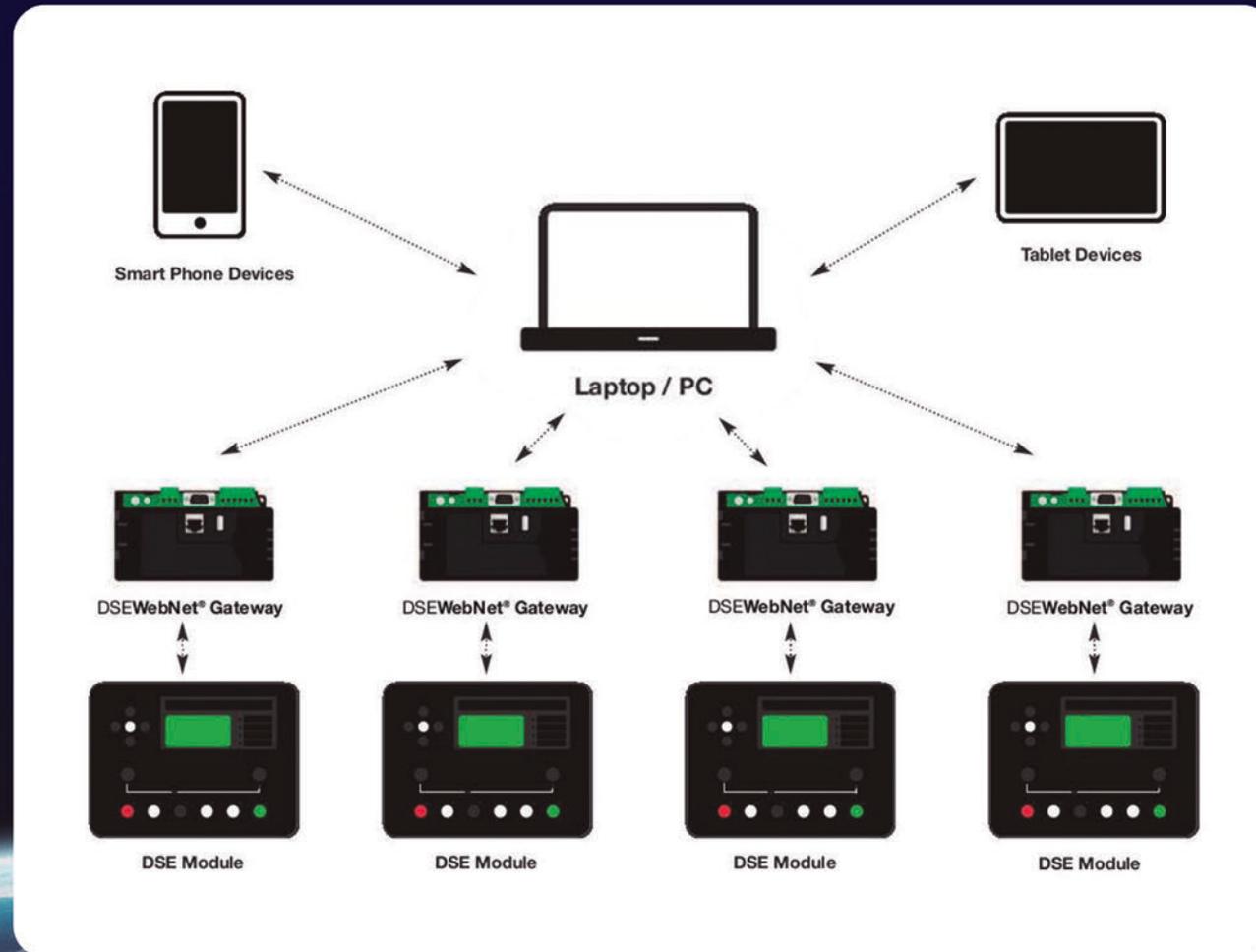


SCR: SELECTIVE CATALYST REDUCTION

The SCR stage removes most of the remaining NO_x. The decomposed urea and exhaust gases react with the active chemicals in the SCR to form carbon dioxide and water vapor. This is what exits the tailpipe.

REMOTE MONITORING

Our strategic partner, Deep Sea Electronics, one of the industry leading generator control solutions provider has made its DSE Web net System available for MODASA making it possible to monitor your generator set remotely with the free license and being able to verify fuel level, frequency, voltage and engine oil pressure in real time plus start/stop and automatic alarm functionalities.



ADVANCED FEATURES

- User configurable access
- Single user or organizational accounts
- Configurable reporting
- Start/stop equipment
- Clear alarm conditions
- Configurable user interfaces
- App for mobile and tablet (iOS/Android)
- Geo-fencing and asset tracking
- Maintenance scheduling and logging
- Event triggers
- Works across any phone network



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