

MPD-PMG-LP.NG300-YE-N3R-M1

300 KW Pad Mounted Natural Gas/Liquid Propane Generator Power Distribution - 480Y/277 3-phase Nominal Voltage - NEMA 3R

Product ID: 327843



Image: MPD-PMG-LP.NG300-YE-N3R-M1

Larson Electronics LLC manufactures a wide variety of products, including custom built to spec designs. The pictures displayed for this unit are a general representation of form factor for the product line and may not accurately represent this exact configuration in every detail due to custom builds and changes between similar products in our standard catalog. The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional Drawing, Name Plate Diagram, Wiring Diagram, etc.). This means that specific details (receptacles, plugs, wires, connections, mounting brackets, external finishes, etc.) may not be accurately represented in images vs specifications. Please review specifications and do not order based solely on images.

MPD-PMG-LP.NG300-YE-N3R-M1 Pad Mounted Natural Gas Generator

Gen-set Output Ratings

Phase: Three-phase

Frequency: 60 Hz

Power Factor: 0.8 (Lagging)

Nominal Voltage: 480Y/277V

Rated Current: 540A

Rated Power: 300 KW

Standby Power: TBD

Steady-state Voltage Regulation: $\leq \pm 0.5\%$

Voltage Fluctuation Rate: $\leq \pm 0.5\%$

Transient Voltage Regulation Rate: +20 ~ -15%

Load Sudden Voltage Stabilization Time: ≤ 2 s

Steady-state Frequency Adjustment Rate: $\leq \pm 1\%$

Frequency Fluctuation: $\leq \pm 2\%$

Transient Frequency Adjustment Rate: +10 ~ -7%

Load mutation Frequency Stabilization Time: ≤ 2 s

Breaker: Included, 600A, LS/I 80% Rated 480/277V

General Engine Specs

Engine Type: V-type, 4 Cycle

Engine Rated Standby Power: 342 KW

Number of Cylinders: (6)

Controller Features & Benefits

Microprocessor controlled, UL & NFPA110 Compatible

License free PC Software (Non-proprietary Software)

IP65 rating offers increased resistance to water ingress

Modules can be integrated to building management systems

Real time clock provides accurate event log

Four line back-lit LCD text display

Five key menu navigation, two wire start/stop at Auto mode

Front panel editing with PIN protection

Support up to three remote display modules

Configurable timers and alarms

Multiple date and timer scheduler

Integral PLC editor

'Protections disabled' feature

Load switching (load shedding and dummy load outputs)

Fully configurable via DSE Configuration Suite PC Software

SCADA monitoring via DSE Configuration Suite PC Software

Made in the USA

Protection

Gen. Voltage – under / over

Gen. Freq. – under / over

Engine Speed: 1800 rpm
Aspiration: Turbo Charge Air Cooled
Compression Ratio: 10.5 : 1
Bore/Stroke Diameter: 5.04"/5.59"
Governor Type: Electronic

Fuel System

Fuel Type: NG, LP Gas/Dual Fuel
NG Supply pipe size: 1 1/4" NPTF
Maximum EPR Rated Pressure: 6.9 kPa / 1.0 psi
Recommended Max Pressure: 2.7 kPa / 11.0 inH2O
Recommended Min Pressure: 1.7 kPa / 7.0 inH2O
Max LPG vapor Pressure to EPR: 2.7 kPa / 11.0 inH2O
Operating Hours: The Storage Tank Can Withstand up to 72 Hrs

Fuel Consumption

Standby Power (100%): 3172 cfh (For Natural Gas), 926 cfh (For LP Gas)
Standby Power (75%): 2425 cfh (For Natural Gas), 790 cfh (For LP Gas)
Standby Power (50%): 1675 cfh (For Natural Gas), 530 cfh (For LP Gas)

Cooling System

Radiator Cooling System Type: Closed Circuit
Coolant Capacity: 28 gal
Cranking Temperature: 160°F
Full Open Temperature: 185 °F

Exhaust System

Type: Water cooled manifold
Max. allowable back pressure: 10.2 kPa
Max Turbine Inlet Temperature: 1382 °F
Exhaust Gas Flow at Rated Power @ 1350 °F: 2521 cfm

Air Intake System

Combustion Air Required: 687 cfm
Max Intake Air Restriction (Clean Element): 1.24 kPa / 5 inH2O
Air Filter Type: Dry Paper Element

Lubrication System

Oil Specifications: SAE 15W-40 Low Ash Gas Engine oil, API CD/CF or higher
Oil Pan Capacity, Min-Max: 26.5 - 32.75 Qts
Oil filter; qt, type: 2, Cartridge
Min – Max Oil Pressure at Rated Speed: 43.5 psi – 94.5 psi

Electrical Starting System

Starting Method: Electric start
System Voltage (dc): 24V
Battery Qty, Rating: 2 x 120Ah

Alternator Specs

Control System: PMG
A.V.R.: MX341
Voltage Regulation: ± 1 %
Insulation System: Class H

Engine Speed – under / over
Engine Oil Pressure – low
Engine Temp – low / high
Battery Voltage – low / high
Weak Battery
Fail to Start / Stop
Charge Alternator Fail
Over Current & Load (kW/kVAr)
Unbalanced Load
Independent Earth Fault
Reverse Power
Loss of Speed Signal

Instruments

Gen. Voltage (L-L/L-N)
Gen. Frequency
Engine speed
Oil Pressure
Water Temperature
Battery Voltage
Run Time
Phase Sequence
Power monitoring (kWh/kVAh/kVArh)
Power (kWh/kVAh/kVArh)
Power Factor
Generator Current
Generator Load (%)
Earth Current

Rated Power Factor: 0.8

Protection: IP23

Stator Winding: Double Layer Concentric

Winding Pitch: Two Thirds

Winding Leads: 12

Telephone Interference: THF < 2 %

Waveform Distortion: No Load < 1.5 %

Maximum Overspeed: 2250 rev/min

Controller System: DSE 7320 MK II

Battery Charger & Electrical System Data

Manufacturer: ComAp

Model: IntelliCharger

Input Voltage: 85V ~ 264V AC

Output Voltage / Current: 13.8V Float / 4A pk

Remote/Automatic Start Capability: Included

Jacket Water Heater Data

Input Voltage: 240V

Power: 2500W

Enclosure Dimensions: 177.16"-W x 86.6"-L x 98.4"-H

Weight: 9,920.8 lbs

Enclosure Rating: NEMA 3R

Sound Pressure @ 7 meters: 79 dBA

Shipping Dimensions: -

Shipping Weight: -

Larson Electronics manufactures a wide variety of custom power distribution systems. The pictures displayed for this unit are a general representation of form factor and may not accurately represent this exact configuration in every detail due to being custom builds. The specifics for this configuration are listed in the specification table and one-line diagram.

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

Intl: 1-903-270-1187

Fax: 1-903-765-7664

E-mail: sales@larsonelectronics.com

All grounding shall comply with state and local codes and meet the minimum requirements of the National Electronic Code section 250

This unit is Made In USA - Manufactured in Texas

The Larson Electronics MPD-PMG-LP.NG300-YE-N3R-M1 Pad Mounted Natural Gas Generator Power Distribution provides three-phase 480Y/277V in remote locations or sites requiring access to temporary power.

PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO POWER DISTRIBUTION PANELS, TRANSFORMERS, OR SUBSTATIONS

The MPD-PMG-LP.NG300-YE-N3R-M1 gives operators the ability to power their temporary equipment from a single system. This natural gas generator features three-phase 277/480V, 60Hz selectable voltages. This unit is capable of generating 300 kW during use. Equipped with camlock connections, the sound-attenuated generator has an external fuel system and cold start options. Operators may access a DSE controller, battery charger, battery disconnect, and toolbox on the system.

Trailer: The gas generator doesn't contain a trailer.



Applications: This unit solution is ideal for indoor or outdoor use and applications including, but not limited to, construction sites, plant maintenance, plant turnarounds, shows, exhibits, and shipyard operations. These power distribution systems are popularly used in applications where external power sources are often necessary. We also offer class-rated transformers for use within explosion-proof and hazardous location environments.

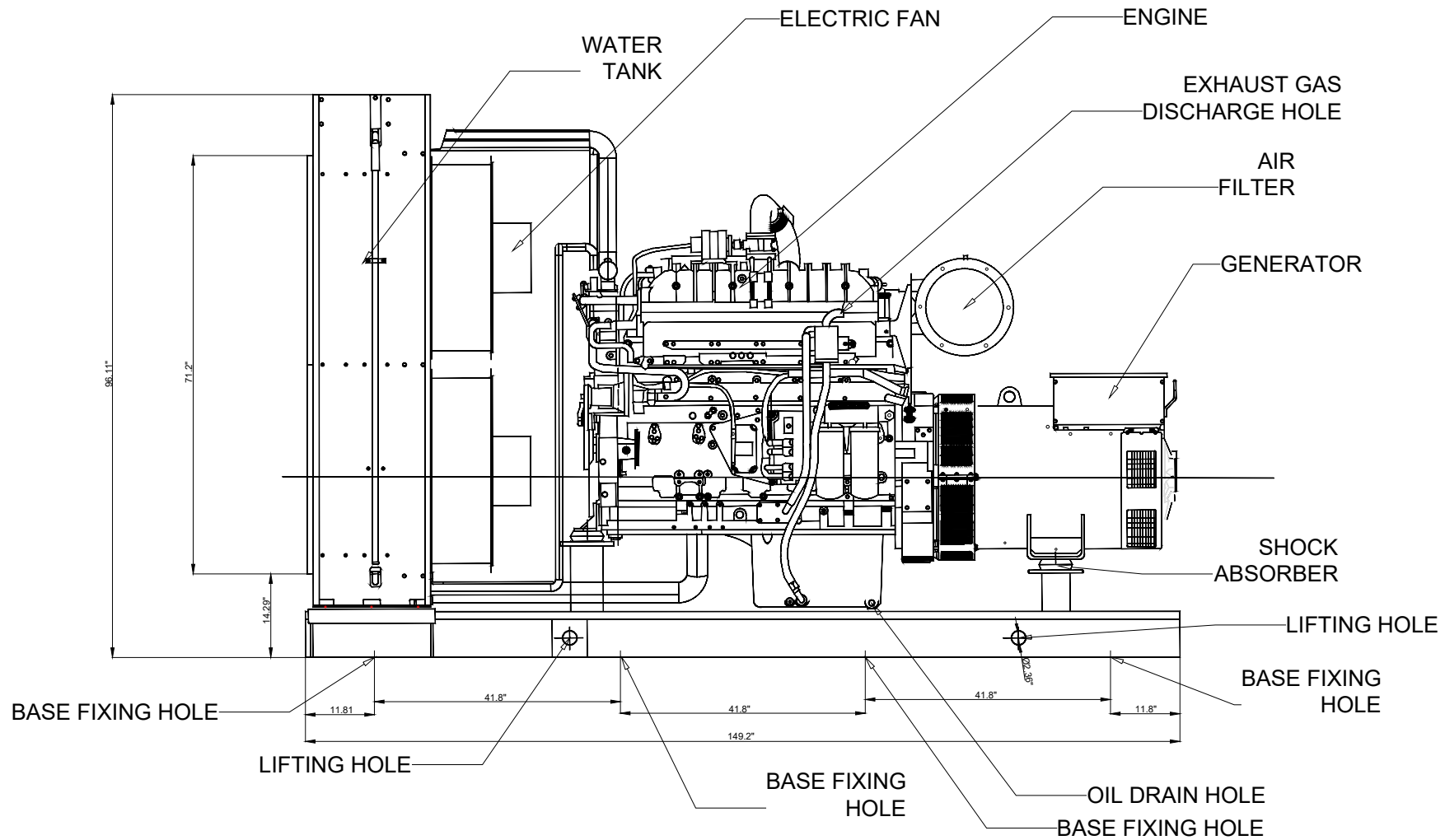
Custom-Built Systems Available: Larson Electronics is a manufacturer, and we can build portable power distribution systems to your specifications. Although we carry several models of portable power distribution systems in stock, we can deliver custom-ordered units almost as quickly as our prebuilt units. If this model does not meet your needs, please contact us at 1-800-369-6671 or sales@larsonelectronics.com to discuss your specific requirements.

REV	DESCRIPTION	DATE
A	PRODUCT DESCRIPTION	03/9/2026

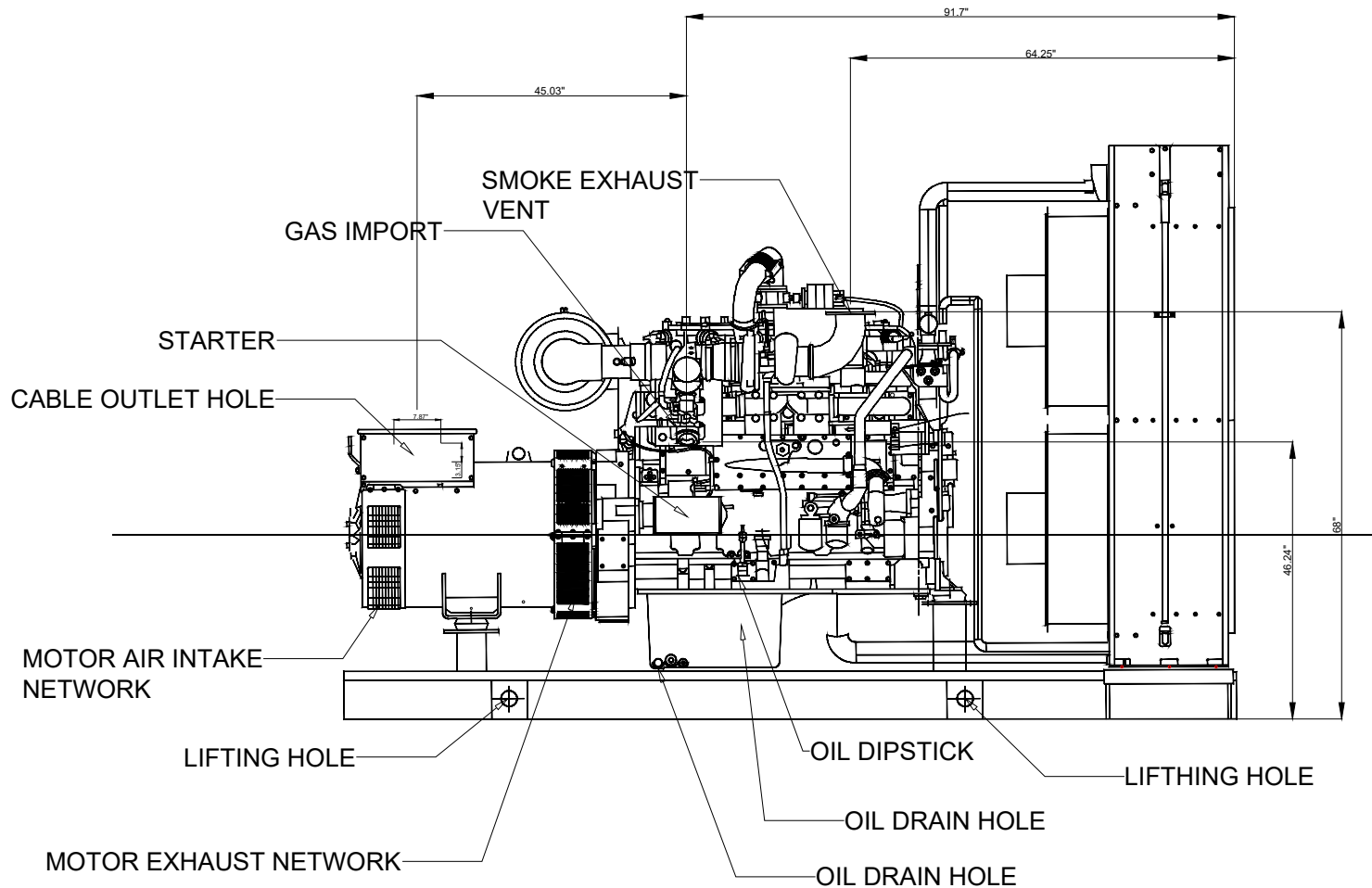
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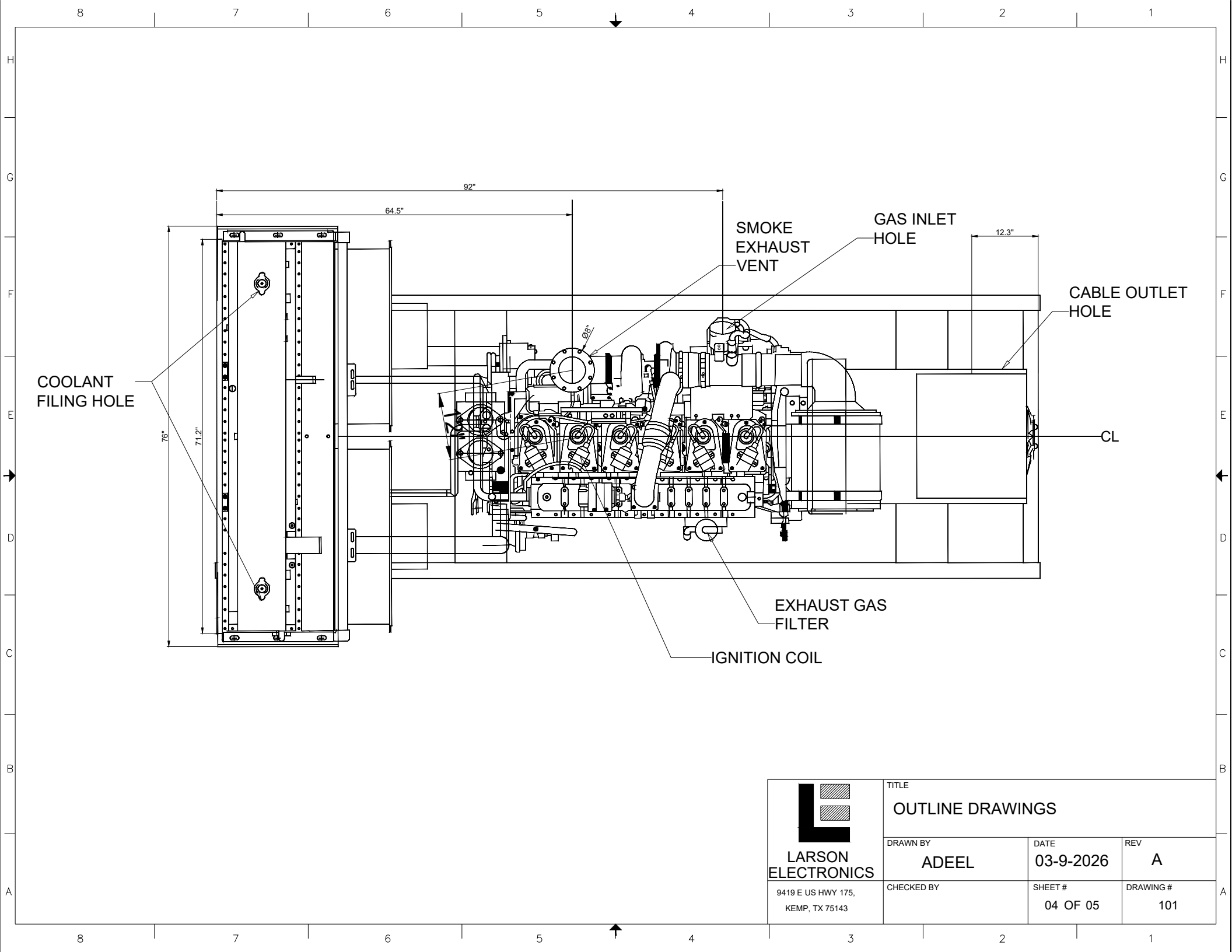
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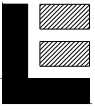


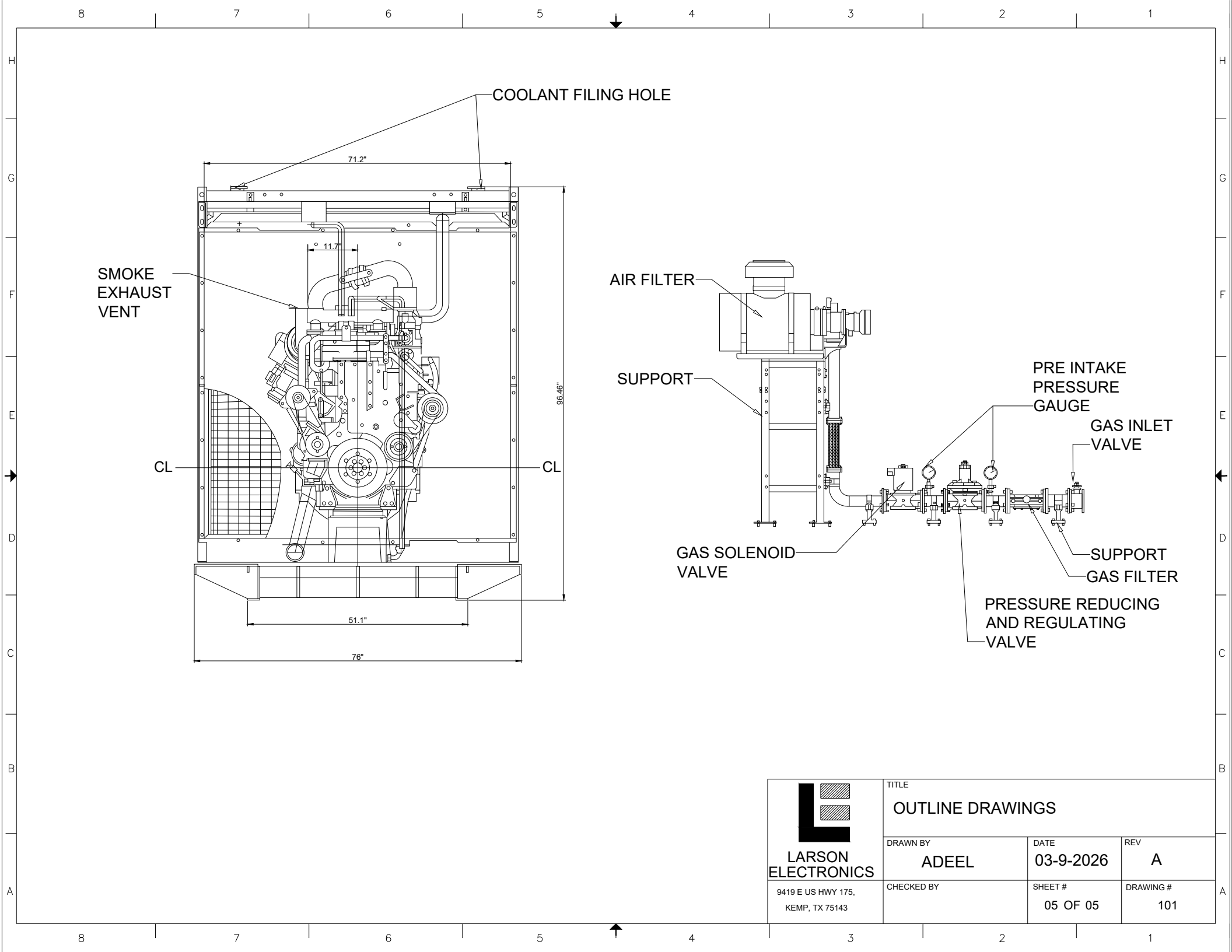
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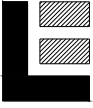


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Frequently Asked Questions (FAQ)

There are no Faqs