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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

Please see last page for supporting documentation for this product (certificates, CAD files & drawings, IES files, wiring diagrams, etc).



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: ≤ ± 0.5%
Voltage Fluctuation Rate: ≤ ± 0.5%
Transient Voltage Regulation Rate: +20 ~ -15%
Load Sudden Voltage Stabilization Time: ≤ 2 s
Steady-state Frequency Adjustment Rate: ≤ ± 1%
Frequency Fluctuation: ≤ ± 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

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

Engine Type: V-type, 4 Cycle
Engine Rated Standby Power: 342 KW
Number of Cylinders: (6)
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 ¼" 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 %

Protection
Gen. Voltage – under / over
Gen. Freq. – under / over
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

Insulation System: Class H
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: InteliCharger
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.

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Frequently Asked Questions (FAQ)

There are no Faqs

Export Control Classification Number (ECCN): EAR99

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Links (Click on the below items to view):

- **Dimensional Drawing 2D**(https://www.larsonelectronics.com/images/product/DimensionalDrawing/327843.PDF)
- **HigResPic1**(https://www.larsonelectronics.com/images/product/HigResPic1/327843.JPG)
- **Video1**(https://www.youtube.com/watch?v=h7_pYtCwNBQ)
- **Video2**(https://www.youtube.com/watch?v=AjV5ZuQ7L64)
- **Video3**(https://www.youtube.com/watch?v=IPNHyFMNgzY)
- **ISO 9001 Certification**(http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF)
- **Business Certificate**(https://www.larsonelectronics.com/images/pdfdocs/w9.PDF)
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