



MODEL SERIES

# PM4025

Gaseous Fueled Stationary Standby

25kW

60Hz

## Total Power Solution Package

| Model: PM4025 |       | Propane Standby Rating* |    |      | Full Load | Motor Starting      | Insulation | MLCB Rating |
|---------------|-------|-------------------------|----|------|-----------|---------------------|------------|-------------|
| Voltage       | Phase | Hertz                   | kW | kVA  | Amps      | SkVA <sup>(1)</sup> | Class      | Amps        |
| 120/240       | 1     | 60                      | 25 | 25   | 104       | 43.5                | H          | 110         |
| 120/208       | 3     | 60                      | 25 | 31.5 | 86.7      | 53                  | H          | 100         |
| 120/240       | 3     | 60                      | 25 | 31.5 | 75.2      | 66                  | H          | 90          |
| 277/480       | 3     | 60                      | 25 | 31.5 | 37.5      | 66                  | H          | 45          |

## Standard Features

### Ford Industrial Engine

- Ford Model LRG425 4-Cylinder In-Line Engine
- Electronic, Distributorless Ignition Control Module
- Electronic Governing Provides 0.5% Frequency Control
- Engine Oil Drain Lines Provided
- Easily Accessible For Engine Service

### Alternator

- 2/3 Pitch Winding For Reduced Harmonics
- Low Waveform Distortion
- Excellent Motor Starting
- Tropicallized Windings

### Weather Enclosure

- 16 Gauge Steel Enclosure With Sound Material Installed
- Powder Painted Almond Color Finish
- Lockable (keyed alike) Doors With Sound Baffles
- Vertical Air Discharge For Optimal Sound Control
- Critical Grade Muffler Integral To Enclosure
- No Exterior Fasteners

### Fuel System

- Operates On Liquefied Petroleum Gas Or Natural Gas
- Simple Field Conversion Between Fuels
- Integrated Governor- Throttle Body Assembly

### Cooling System

- Rated To Operate In 104°F Ambient Temperatures
- Factory Filled With Environmentally Safe Propylene Glycol
- 500-Watt Thermostatically Controlled Circulation Heater Aids Starting

### Main Line Circuit Breaker

- UL 489 Listed Breaker Is Included As Standard
- Conveniently Mounted Behind Lockable Door With Window

### Digital Remote Start/Stop Controller

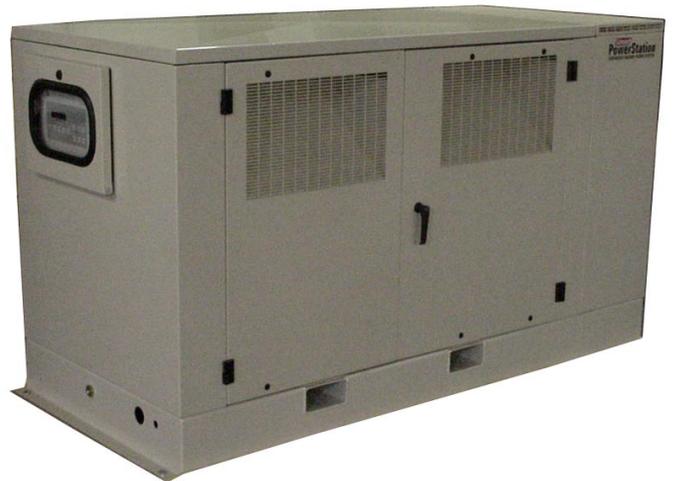
- Robust Control Package
- Highly Accurate Monitoring, Display & Protection
- Field Programmable To Custom Tailor For Users Needs
- Equipped With RS485 Output, Compatible With RDP110 Remote Annunciator Panel
- Programable I/O's- 2 Relay Output/3 Auxiliary Input Contacts

### 3-Year/1500 Hour Warranty

- Best Standard Warranty In Its' Class



Listed To The UL2200 Standard <sup>(2)</sup>



(1) Rated @ 30% Voltage Dip

(2) Consult Factory for conformance to UL2200 on special models prior to ordering.

\* Standby Power Rating Definition: All models rated on lp gas, derate 10% when using natural gas. Capable of supplying emergency power in lieu of utility power for the duration of the interruption. There is no overload capacity available or specified for this rating. Single-phase units are rated at unity power factor. Three-phase units are rated at .8 power factor. Single-phase systems are dedicated single phase (4-wire). Three-phase systems are 12-lead broad range reconnectable. When reconnecting a 12-lead alternator to single-phase, derate to 2/3 output. OTHER DERATION FACTORS: Engine power is available to 77°F, barometric pressure of 29.5in. Hg & relative humidity of 60%. Altitude: Derate system performance 4% per 1000 feet above 500 feet. Temperature: Derate system performance 1% per 10°F temperature increase above 77°F. Humidity: Derate system performance 1.5% per 10% relative humidity above 60%. For elevations above 8000 feet, consult factory.

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**PowerStation™**  
 EMERGENCY BACKUP POWER SYSTEM

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## Engine Data

### General

|                         |                                    |
|-------------------------|------------------------------------|
| Manufacturer            | Ford                               |
| Model                   | LRG-425                            |
| Type                    | 4-Cycle, In-line Configuration     |
| Horsepower              | 45 Maximum (LP)@ 1800rpm           |
| Cylinder Block Material | Cast Iron                          |
| Cylinders               | 4                                  |
| Aspiration              | Natural                            |
| Air Cleaner             | Heavy Duty Replaceable Dry Element |
| Displacement            | 2.5 Liters                         |
| Compression Ratio       | 9.37:1                             |
| Bore                    | 96mm                               |
| Stroke                  | 86.3mm                             |
| RPM                     | 1800                               |
| Engine Governing        | ± 0.5% - Electronic                |

### Fuel System

|                  |  |
|------------------|--|
| Fuel System      | Woodward Fuel Mixer, Secondary Regulator, 12vdc Positive Locking Shut-off Solenoid |
| Fuel Type        | Liquefied Petroleum Gas(Vapor) Or Natural Gas                                      |
| Injection Method | Carburetor Induction   |

### Lubrication System

|                   |  |
|-------------------|--|
| Lube Oil System   | Centrifugal Pump, Spin-on-Full Flow Filter |
| Lube Oil Capacity | 4.5 Quarts W/Filter                        |

### Cooling System

|                                     |   |
|-------------------------------------|---|
| Cooling System                      | 105°F Ambient Radiator Equipped                             |
| Ambient Operating Temperature Range | -20°F To 105°F  |
| Cooling System Capacity             | 2.8 Gallons   |
| Coolant Flow Rate                   | 17.4 GPM  |
| Coolant Heater                      | 120v, 500 Watt Thermostatically Controlled Circulation Type |

### Electrical

|                             |  |
|-----------------------------|--|
| Starting Voltage            | 12v negative ground  |
| Battery Size Required       | BCI Group 26, Battery Rack & 2/0 Cables Included   |
| Cranking Current            | 550cca @ 0°F   |
| Battery Charging Alternator | 90 amps  |
| Battery Charger (120v AC)   | Bulk - 6A, 12vdc<br>Absorption - 5.5A, Taper To 1.5A Between 13-14.4vdc<br>Float - 0.1 To 0.3A, 13.3vdc K 0.3vdc |

## Engine Emission Data

### Permits:

|   |                 |
|---|-----------------|
| California Air Resource Board               | Consult Factory |
| South Coast Air Quality Management District | Consult Factory |

### Emissions Data\* Tested To ISO 8178 D2 Cycle:

|                    |                 |
|--------------------|-----------------|
| Hydrocarbons       | Consult Factory |
| Nitric Oxide       | Consult Factory |
| Carbon Monoxide    | Consult Factory |
| Particulate Matter | Consult Factory |

\*Emission levels may rise above published limits due to improper maintenance or altered air intake/airflow.

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## Fuel System

Fuel Type: Liquefied Petroleum Gas Vapor or Natural Gas (LP Liquid Optional)  
 Fuel Supply Inlet: 1/2" NPT  
 Fuel Supply Pressure: 7-11 (In/H<sub>2</sub>O)  
 4-6 (Oz/In<sup>2</sup>)

## Fuel Consumption

| Fuel Consumption @ % Load | LP Gas (Cubic Feet/Hour) | Natural Gas (Cubic Feet/Hour) |
|---------------------------|--------------------------|-------------------------------|
| 25%                       | 34                       | 85                            |
| 50%                       | 67                       | 169                           |
| 75%                       | 101                      | 254                           |
| 100%                      | 135                      | 304                           |

## Engine Generator Application/Installation Data

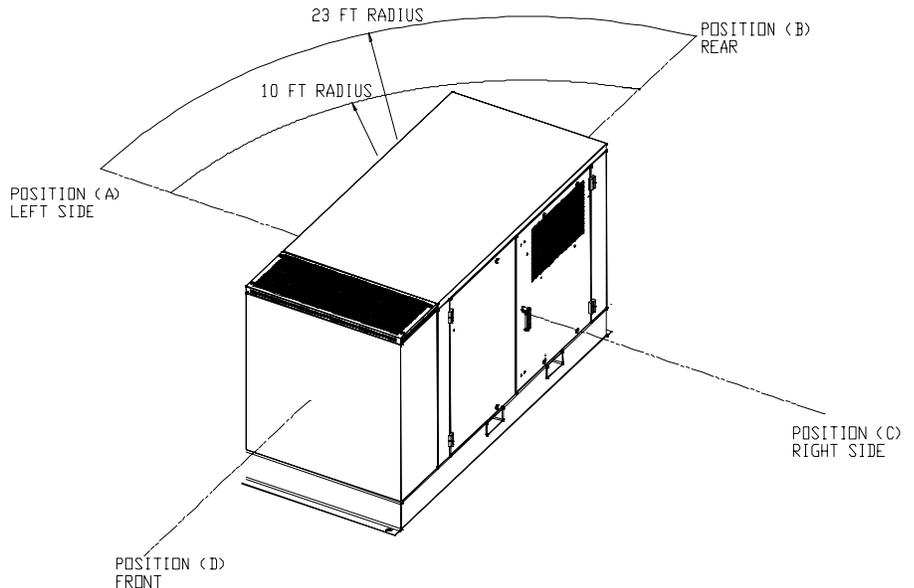
Radiator Airflow: 4200 CFM  
 Alternator Airflow: 250 CFM  
 Combustion Airflow: 100 CFM  
 Total Airflow: 4550 CFM  
 Heat Rejected To Coolant: 70000 BTU/HR  
 Heat Rejected To Exhaust: 195000 BTU/HR  
 Maximum Exhaust Flow: 206 CFM  
 Maximum Exhaust Backpressure: 1.1 PSI  
 Exhaust Temperature: 1200 °F

## Sound Data

66 dB(A) Average @ 23' (7m) @ Full Load

| 10 Feet (3m)   | Position  | 50% Load  | 100% Load |
|----------------|-----------|-----------|-----------|
|                | A         | 74.5      | 77        |
|                | B         | 69        | 70.5      |
|                | C         | 73        | 74        |
|                | D         | 71        | 72.5      |
| <b>Average</b> | <b>72</b> | <b>74</b> |           |

| 23 Feet (7m)   | Position  | 50% Load  | 100% Load |
|----------------|-----------|-----------|-----------|
|                | A         | 66        | 67        |
|                | B         | 64.5      | 65.5      |
|                | C         | 65.5      | 67        |
|                | D         | 65        | 66        |
| <b>Average</b> | <b>65</b> | <b>66</b> |           |



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## Alternator Data

|                           |   |
|---------------------------|---|
| Type                      | Brushless Revolving Field, Drip Proof Construction<br>W/Tropically Windings |
| # Poles                   | 4   |
| Coupling Method           | Direct, Flex Disc   |
| Insulation Class          | H, UL 1446 Recognized   |
| Voltage Regulation        | Externally Regulated, Solid State AVR ± 1.5%                                |
| Total Harmonic Distortion | <3.5%   |
| Waveform Deviation Factor | <5%   |

## Circuit Breaker Data

|                  |                             |
|------------------|-----------------------------|
| Type             | Molded Case                 |
| Withstand Rating | 10kA AC @ 240v, 18kA @ 480v |
| Agency Listing   | UL 489 Listed               |

## Control Panel Functions

- Automatic Remote Start (2-wire)
- Generator Current Metering
- Engine Oil Pressure Monitoring
- Overcrank Protection
- Watt Metering
- Power Factor Metering
- Battery Voltage Metering
- On-Off-Auto Selector Switch
- Generator Voltage Metering
- Engine Coolant Temperature Metering
- Engine Oil Pressure Protection
- Emergency Stop Input
- VA Metering
- Watt-hour Metering
- Battery Condition Monitoring
- Low Coolant Level Detection\*
- Generator Frequency Metering
- Engine Coolant Temperature Protection
- Overspeed Protection
- Engine Cooldown
- Engine RPM Metering
- Engine Run Time Metering
- Maintenance Interval Timer
- Battery Charger Failure Monitoring\*

\* Generator Set Must Be Equipped With Appropriate Hardware

## Options

LP Liquid Withdrawal System  
Remote Annunciation Panel – RDP110  
Digital (CP1000) Panel Upgrade  
Allows For:  
Additional I/O Contacts  
Modem Capability

## Dimensions & Weight

Weight  
1400 lbs.

