Diesel Product Line

JD40-04FT4MP

40 kWe / 40 kWe

Standby / Prime

208-480 Volt

60 Hz / 1800 RPM

Ratings

<table>
<thead>
<tr>
<th>Phase</th>
<th>240V</th>
<th>208V</th>
<th>240V</th>
<th>480V</th>
<th>Multi-Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3 / 1</td>
</tr>
<tr>
<td>PF</td>
<td>1.0</td>
<td>0.8</td>
<td>0.8</td>
<td>0.8</td>
<td>0.8 / 1.0</td>
</tr>
<tr>
<td>Hz</td>
<td>60</td>
<td>60</td>
<td>60</td>
<td>60</td>
<td>60</td>
</tr>
<tr>
<td>Generator Model</td>
<td>287PSL1702</td>
<td>285PSL1700</td>
<td>285PSL1700</td>
<td>285PSL1700</td>
<td>287PSL1702</td>
</tr>
<tr>
<td>Connection</td>
<td>12 LEAD ZIG-ZAG</td>
<td>12 LEAD WYE</td>
<td>12 LEAD DELTA</td>
<td>12 LEAD WYE</td>
<td>12 LEAD CONFIGURABLE</td>
</tr>
</tbody>
</table>

| Standby | | | | | |
| kW & | | | | | |
| kWe  | 40 | 40 | 40 | 40 | 40 |
| AMPS | 167 | 139 | 120 | 60 | 167/139/120/60 |
| Temp Rise | 105°C / 40°C | 105°C / 40°C | 105°C / 40°C | 105°C / 40°C | 105°C / 40°C |

| Prime | | | | | |
| kW & | | | | | |
| kWe  | 40 | 40 | 40 | 40 | 40 |
| AMPS | 167 | 139 | 120 | 60 | 167/139/120/60 |
| Temp Rise | 105°C / 40°C | 105°C / 40°C | 105°C / 40°C | 105°C / 40°C | 105°C / 40°C |

Standard Equipment

Engine
- Radiator Cooled Unit Mounted (50°C)
- Blower Fan & Fan Drive
- Starter & Alternator
- Oil Pump & Filter
- Oil Drain Extension w/Valve
- Governor - Electronic Isochronous
- 12V Battery System & Cables
- Air Cleaner (Dry Single Stage)
- Flexible Fuel Connector
- EPA Certified Tier 4 Final
- DOC/DPF Exhaust Filter
- Brushless Single Bearing
- Automatic Voltage Regulator
- ± .25% Voltage Regulation
- 4 Pole, Rotating Field
- 105°C Standby Temperature Rise
- 105°C Prime Temperature Rise
- 100% of Rated Load - One Step
- 5% Maximum Harmonic Content
- NEMA MG 1, IEEE and ANSI Standards Compliance for Temperature Rise
- Single Source Supplier
- Microprocessor Based Digital Control
- Control Panel Mounted in NEMA 12 Enclosure
- Base - Formed Steel
- Level 3 Enclosure
- Trailer with Integrated Fuel Tank
- Main Line Circuit Breaker Mounted & Wired
- Exhaust Filter / Stencher Mounted
- Battery Charger 12V 6 Amp
- Jacket Water Heater -20°F 1000W 120V w/Isolation Valves
- Vibration Isolation Mounts
- 2YR / 2000HR Standby Warranty
- 1YR / 1500HR Prime Warranty
- Standard Color - White
### Diesel Product Line

#### Application Data

#### Engine

- **Manufacturer:** John Deere
- **Model:** 3029HFG03
- **Type:** 4-Cycle
- **Aspiration:** Turbo Charged, CAC
- **Cylinder Arrangement:** 3 Cylinder Inline

#### Displacement - Cu. In. (lit):
177 (2.90)

#### Bore - in. (cm) x Stroke - in. (cm):
4.20 (10.7) x 4.30 (11.0)

#### Compression Ratio:
16.9:1

#### Rated RPM:
1800

#### Max HP Stby (kWm):
74.0 (55.2)

#### Exhaust System

<table>
<thead>
<tr>
<th>Standby</th>
<th>Prime</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas Temp. (Stack): °F (°C)</td>
<td>1,044 (562)</td>
</tr>
<tr>
<td>Gas Volume at Stack Temp: CFM (m³/min)</td>
<td>463 (13.1)</td>
</tr>
<tr>
<td>Maximum Allowable Exhaust Restriction (Post DPF): in. H₂O (kPa)</td>
<td>22.0 (5.50)</td>
</tr>
</tbody>
</table>

#### Cooling System

<table>
<thead>
<tr>
<th></th>
<th>Standby</th>
<th>Prime</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambient Capacity of Radiator: °F (°C)</td>
<td>122 (50.0)</td>
<td>122 (50.0)</td>
</tr>
<tr>
<td>Maximum Allowable Static Pressure on Rad. Exhaust: in. H₂O (kPa)</td>
<td>0.50 (0.12)</td>
<td>0.50 (0.12)</td>
</tr>
<tr>
<td>Water Pump Flow Rate: GPM (lit/min)</td>
<td>26.0 (98.4)</td>
<td>26.0 (98.4)</td>
</tr>
<tr>
<td>Heat Rejection to Coolant: BTUM (kW)</td>
<td>1,713 (30.0)</td>
<td>1,713 (30.0)</td>
</tr>
<tr>
<td>Heat Rejection to CAC: BTUM (kW)</td>
<td>638 (11.2)</td>
<td>638 (11.2)</td>
</tr>
<tr>
<td>Heat Radiated to Ambient: BTUM (kW)</td>
<td>444 (7.77)</td>
<td>444 (7.77)</td>
</tr>
</tbody>
</table>

#### Air Requirements

- **Aspirating:** CFM (m³/min) 177 (5.01) 177 (5.01)
- **Air Flow Required for Rad. Cooled Unit:** CFM (m³/min) 6,714 (190) 6,714 (190)
- **Air Flow Required for Heat Exchanger/Rem. Rad. CFM (m³/min):** Consult Factory For Remote Cooled Applications

#### Fuel Consumption

<table>
<thead>
<tr>
<th></th>
<th>Standby</th>
<th>Prime</th>
</tr>
</thead>
<tbody>
<tr>
<td>At 100% of Power Rating: gal/hr (lit/hr)</td>
<td>3.56 (13.5)</td>
<td>3.56 (13.5)</td>
</tr>
<tr>
<td>At 75% of Power Rating: gal/hr (lit/hr)</td>
<td>2.86 (10.8)</td>
<td>2.86 (10.8)</td>
</tr>
<tr>
<td>At 50% of Power Rating: gal/hr (lit/hr)</td>
<td>2.20 (8.33)</td>
<td>2.20 (8.33)</td>
</tr>
</tbody>
</table>

#### Fluids Capacity

<table>
<thead>
<tr>
<th></th>
<th>Standby</th>
<th>Prime</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Oil System: gal (lit)</td>
<td>2.25 (8.50)</td>
<td>2.25 (8.50)</td>
</tr>
<tr>
<td>Engine Jacket Water Capacity: gal (lit)</td>
<td>1.32 (5.00)</td>
<td>1.32 (5.00)</td>
</tr>
<tr>
<td>System Coolant Capacity: gal (lit)</td>
<td>4.62 (17.5)</td>
<td>4.62 (17.5)</td>
</tr>
</tbody>
</table>

**Deration Factors**
 Rated Power is available up to 8,000 Ft (2,438m) at ambient temperatures to 122°F (50°C) standby and prime. Consult factory for site conditions above these parameters.
Diesel Product Line

40 kWe / 40 kW

DGC-2020 Control Panel

**Standard Features**

- Digital Metering
- Engine Parameters
- Generator Protection Functions
- Engine Protection
- CAN Bus ECU Communications
- Windows-Based Software
- Multilingual Capability
- Remote Communications to RDP-110 Remote Annunciator
- 16 Programmable Contact Inputs
- Up to 15 Contact Outputs (7 standard)
- UL Recognized, CSA Certified, CE Approved
- Event Recording
- IP 54 Front Panel Rating with Integrated Gasket
- NFPA 110 Level 1 Compatible

**Convenience Panel**

- 2-50A 125/250VAC 3P4W Twist Lock Non-Nema CS6369
- 1-30A 125/250VAC 3P4W Twist Lock Nema L14-30R
- 2-20A 120VAC Duplex GFCI Nema 5-20R
- Thumb Screw Terminals for 2-Wire Remote Start
- 15A 120VAC Male Receptacle for Jacket Water Heater and Battery Charger Shore Power Connection
- 5-400A Rated Female Cam Style Locking Receptacles for Load Connection

Drawings based on standard open power 480 volt standby generator. Lengths may vary with other voltages. Subject to change without notice. Sound data as measured at 23 feet (7 meters) in accordance with ISO 8528-10 at standby rating.
Diesel Product Line

40 kWe / 40 kWe

Dimensions

All specification sheet dimensions are represented in inches. All enclosures and fuel tanks are based on the standard standby unit configuration. Any deviation can change dimensions. Materials and specifications subject to change without notice.

Distributed By:

Blue Star Power Systems, Inc.
2250 Carlson Drive
North Mankato, Minnesota 56003
Phone +1 507 345 1776
bluestarps.com
quote.bluestarps.com
sales@bluestarps.com