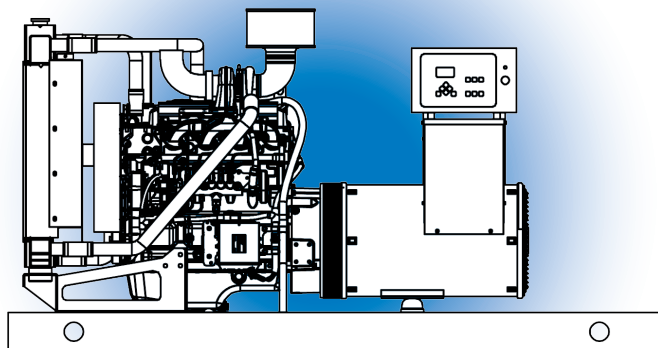


## 125 kW Diesel Generator Set 208 - 480 Volt

60 Hz / Standby  
**EPA TIER 3**

### Engine Technical Data:

|                                      |                                                                                              |
|--------------------------------------|----------------------------------------------------------------------------------------------|
| Manufacturer:                        |  John Deere |
| Model:                               | 4045HF285                                                                                    |
| Type:                                | 4-Cycle                                                                                      |
| Aspiration:                          | Turbo Charged, Air to Air CAC                                                                |
| Cylinder Arrangement:                | 4 Cylinder Inline                                                                            |
| Displacement - Cu. In. (lit):        | 275 (4.5)                                                                                    |
| Bore – in. (cm) x stroke – in. (cm): | 4.19 (10.06) x 5.0 (12.7)                                                                    |
| Compression Ratio:                   | 19:1                                                                                         |
| Rated RPM:                           | 1800                                                                                         |
| Max HP Stby (kWm):                   | 197 (147)                                                                                    |



| Voltage (L-L)     | 480V           | 208V           | 240V           | 240V            |
|-------------------|----------------|----------------|----------------|-----------------|
| Phase             | 3              | 3              | 3              | 1               |
| PF                | 0.8            | 0.8            | 0.8            | 1.0             |
| Hz                | 60             | 60             | 60             | 60              |
| kW Stby (Prime)   | 125 (120)      | 125 (120)      | 125 (120)      | 125 (120)       |
| AMPS Stby (Prime) | 188 (180)      | 434 (416)      | 376 (361)      | 520 (500)       |
| Generator Model   | 362CSL1607     | 362CSL1607     | 362CSL1607     | 431CSL6204      |
| Temp Rise         | 130° C / 27° C | 130° C / 27° C | 130° C / 27° C | 130° C / 27° C  |
| Connection        | 12 LEAD WYE    | 12 LEAD WYE    | 12 LEAD DELTA  | 12 LEAD ZIG-ZAG |

### Engine Features

- Radiator Cooled
- Starter and Alternator
- Oil Pump and Filter
- Electric Isochronous Governor
- SAE J1939 Engine Communications
- EPA Tier level 3 Certified

### Generator Features

- Brushless Single Bearing
- Automatic Voltage Regulator
  - » Over-excitation Protection
  - » Under-Frequency Compensation
- Available Voltages:
  - » 480/277 3PH 12 wire
  - » 208/120 3PH 12 wire
  - » 240/120 3PH 12 wire
  - » 240/120 1PH 12 wire

### DGC 2020 Controller Features

- Microprocessor based, digital control system
- Unit-mounted
- Engine vitals monitored by LCD display:
  - » Oil Pressure
  - » Running Time
  - » Engine Temperature
  - » Safety Shutdowns:
    - ▲ HWT, OC, OS, OP
  - » Battery Voltage
  - » Generator AC Voltage
  - » AC Amperage
  - » Frequency
  - » Continuous Displays
    - ▲ Oil pressure
    - ▲ Engine temperature
    - ▲ Battery voltage
    - ▲ Fuel level

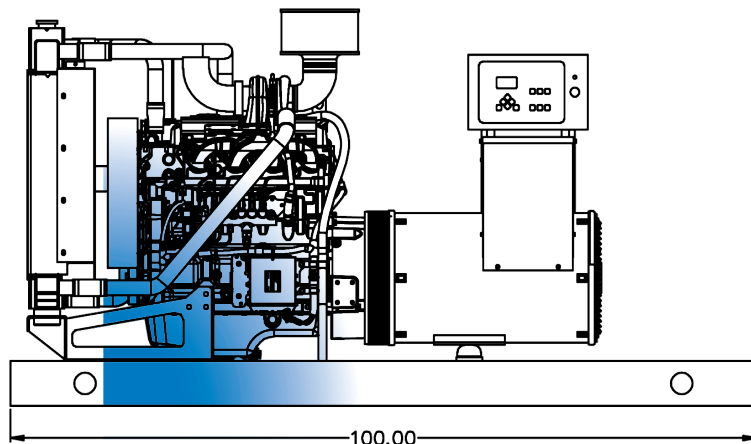
### Additional Standard Features

- Main Circuit Breaker (Mounted and wired)
- Flexible Fuel Connectors
- Battery: 12 volt with rack
- Battery Charger: 12 volt 6 amp
- Vibration Isolation Mounts
- Jacket water heater: -20°F
- Critical Grade Silencer (Mounted)
- Oil Drain valve with extension
- Radiator duct adapter (OPU only)

### Optional Features

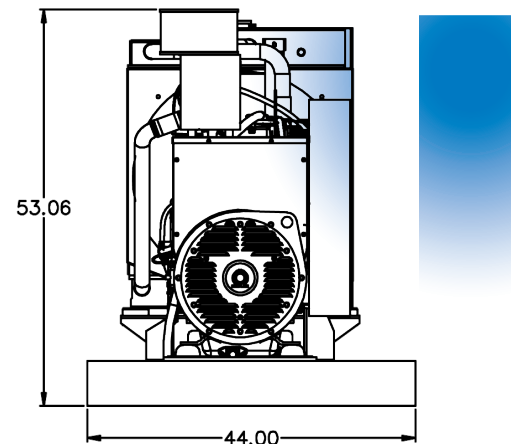
- Sub-base fuel tanks (single or double wall) with or without electrical stub-up area
- Weather Protective and/or Sound Attenuated enclosures
- Remote monitoring panels
- PMG Excitation.

# JD125-02



## UNIT DIMENSIONS (OPU less silencer)

| Unit Type | Dimensions       |
|-----------|------------------|
| OPU       | 100 x 44 x 53 in |
| WPE       | 100 x 44 x 74 in |
| SAE       | 132 x 44 x 80 in |



## UNIT WEIGHT (OPU less silencer)

| Unit Type | Weight (less tank): lbs (kg) |
|-----------|------------------------------|
| OPU       | 2650 (1202)                  |
| WPE       | 3175 (1440)                  |
| SAE       | 3625 (1644)                  |

Dimensions and weights based on standard 480V open power unit. All dimensions and weights may vary with other voltages. Consult factory for installation drawings and accurate weights for your particular unit.

## SOUND DATA

| Unit Type                    | Standby |           | Prime   |           |
|------------------------------|---------|-----------|---------|-----------|
|                              | NO LOAD | FULL LOAD | NO LOAD | FULL LOAD |
| OPU w/ Std Critical Silencer | 75 dBA  | 79 dBA    | 75 dBA  | 77 dBA    |
| WPE                          | 74 dBA  | 78 dBA    | 74 dBA  | 78 dBA    |
| SAE                          | 72 dBA  | 74 dBA    | 72 dBA  | 74 dBA    |

## INSTALLATION DATA

|                                                                  | Standby                                        | Prime        |
|------------------------------------------------------------------|------------------------------------------------|--------------|
| <b>Exhaust System</b>                                            |                                                |              |
| Gas Temp. (Stack): °F (°C)                                       | 1,076 (580)                                    | 1,062 (572)  |
| Gas Volume at Stack Temp: CFM (m³/min)                           | 953 (27.0)                                     | 869 (24.6)   |
| Maximum Allowable Exhaust Restriction: in. H2O (kPa)             | 30 (7.5)                                       | 30 (7.5)     |
| <b>Cooling System</b>                                            |                                                |              |
| Ambient Capacity of Radiator: °F (°C)                            | 122 (50)                                       | 122 (50)     |
| Maximum Allowable Static Pressure on Rad. Exhaust: in. H2O (kPa) | 0.5 (0.12)                                     | 0.5 (0.12)   |
| Water Pump Flow Rate: Gpm (lit/min)                              | 48 (180)                                       | 48 (180)     |
| Heat Rejection to Coolant: BTUM (kW)                             | 4,098 (72)                                     | 3,643 (64)   |
| Heat Radiated to Ambient: BTUM (kW)                              | 1,601 (28.1)                                   | 1,195 (21.0) |
| <b>Air Requirements</b>                                          |                                                |              |
| Aspirating: CFM (m³/min)                                         | 341 (9.66)                                     | 311 (8.80)   |
| Air Flow Required for Rad. Cooled Unit: CFM (m³/min)             | 7,845 (222)                                    | 7,845 (222)  |
| Air Flow Required for Heat Exchanger/Rem. Rad. CFM (m³/min)      | Consult Factory For Remote Cooled Applications |              |
| <b>Fuel Consumption</b>                                          |                                                |              |
| At 100% of Power Rating: gal/hr (lit/hr)                         | 9.9 (37.5)                                     | 9.2 (34.8)   |
| At 75% of Power Rating: gal/hr (lit/hr)                          | 7.6 (28.8)                                     | 7.1 (26.9)   |
| At 50% of Power Rating: gal/hr (lit/hr)                          | 5.6 (21.2)                                     | 5.1 (19.3)   |
| <b>Fluids Capacity</b>                                           |                                                |              |
| Total Oil System: gal (lit)                                      | 3.9 (14.7)                                     | 3.9 (14.7)   |
| Engine Jacket Water Capacity: gal (lit)                          | 3.2 (11.9)                                     | 3.2 (11.9)   |
| System Coolant Capacity: gal (lit)                               | 5.4 (20.4)                                     | 5.4 (20.4)   |