



John Deere Diesel Direct Coupled to 1800 RPM Brushless Generator

- Brushless generators
- Factory tested
- Revolving field class H, 125°C temperature rise generator
- 1% voltage regulation
- Unit mounted radiator with fan guard
- Rubber isolators between unit and base for vibration free operation
- Lifting eyes for easy handling
- Absence of brush gear and high quality AVR ensures low levels of radio interference
- Generators meet the requirements of BS5000 part 3, VDE0530, UTE5100, NEMA MGI-22, CEMA, IE34-1, CSA22.2, and AS1359



Standard Equipment

- Batteries and battery cables
- Battery charging alternator
- Automatic trickle charger
- Engine jacket water heater
- Engine oil and anti-freeze
- Exhaust system (includes muffler, stainless steel bellows connector, rain cap, clamps and 5 feet of exhaust pipe)

DISPLAY | MASTER 4 Controller Standard Features

- Rugged solid state microprocessor design
- 16 character, 2 line backlit LCD display
- Easy keypad programming of all set points, password protected for security
- Remote start/stop capability
- Accurate digital readout of AC volts, amps, phase, frequency, kW, kVA, power factor, battery volts, runtime hours, oil pressure and water temperature
- Indicator lights for normal operation, pre-alarm and fault conditions
- Indicator light for remote start signal
- All shutdowns display on screen until system is reset
- Audible alarm for shutdowns and/or pre-alarms
- 6 user configurable dry contact relay outputs (readily available plug-in relays optional)
- 8 user configurable digital inputs
- Plug-in connectors for easy circuit board replacement
- System Lock feature disables starting of generator for maintenance purposes (requires password to unlock)

Pre-alarms

- Low engine temperature, high engine temperature, low oil pressure, over speed, high battery volts, low battery volts, unit not in auto

Shutdowns

- High engine temperature, low oil pressure, low coolant level, over speed, over crank, no speed signal, emergency stop, weak battery

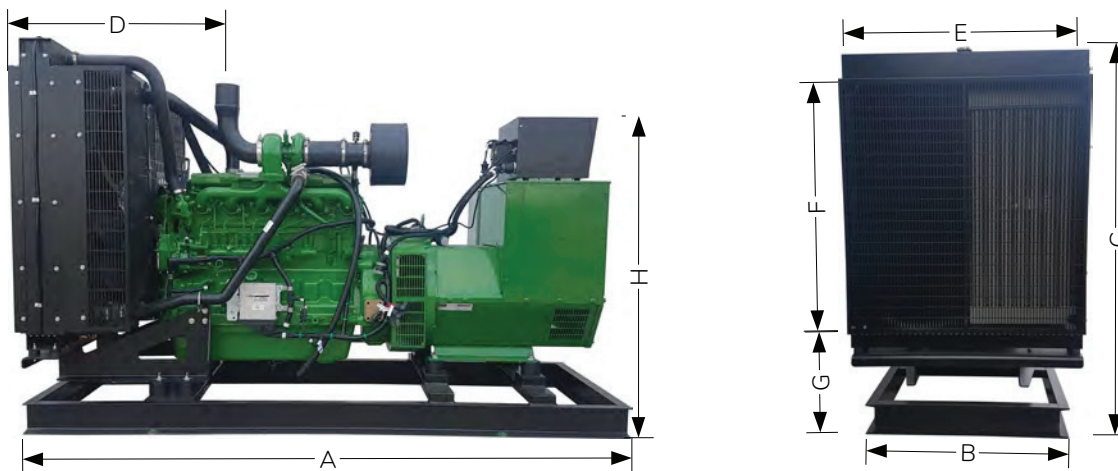
Optional Equipment

- Automatic transfer switches
- Dual wall sub base fuel tanks
- Enclosures
- Trailers
- Main breaker
- Automatic idle for warmup and cooldown
- Permanent magnet generator (PMG) system (provides 300% short circuit withstanding capability)
- Over current sensing, shutdown and display
- Low fuel pre-alarm, shutdown and display
- 29 light remote annunciator with dry relay contacts for all pre-alarms and faults
- Low oil level pre-alarm or shutdown with display
- Pre-alarm and fault relay contacts 10 amp

Model Selection

| Model | KW | KVA | Phase | Volts | RPM | Amps | Breaker Size |
|---------|-----|--------|-------|---------|------|------|--------------|
| 1D126J3 | 125 | 125 | 1 | 120/240 | 1800 | 520 | 600A |
| 2D126J3 | 125 | 156.25 | 3 | 120/208 | 1800 | 434 | 600A |
| 6D126J3 | 125 | 156.25 | 3 | 347/600 | 1800 | 150 | 175A |
| 1D175J3 | 175 | 175 | 1 | 120/240 | 1800 | 729 | 800A |
| 2D180J3 | 180 | 225 | 3 | 120/208 | 1800 | 625 | 600A |
| 6D180J3 | 180 | 225 | 3 | 347/600 | 1800 | 216 | 250A |

Dimensions



| Model | A | B | C | D | E | F | G | H | Total Wt. |
|--------|----|----|------|----|----|----|------|----|-----------|
| 125 kW | 92 | 33 | 61.5 | 30 | 30 | 38 | 17.5 | 52 | xx lbs. |
| 180 kW | 96 | 33 | 61.5 | 30 | 37 | 38 | 17.5 | 52 | xx lbs. |

Specifications

| TIER 3 Emissions | Units of Measurement | 125 kW | 180 kW |
|--|---------------------------|--------------------------|--------------------------|
| Engine Model | | 6068HFU82 | 6068HFU82 |
| Horsepower | | 211 | 284 |
| Type | | 6 cyl. Inline | 6 cyl. Inline |
| Aspiration | | Turbocharged/Aftercooled | Turbocharged/Aftercooled |
| Bore x Stroke | mm (inches) | 106 × 127(4.2×5.0) | 106 × 127(4.2×5.0) |
| Displacement | litres (cubic inches) | 6.8 (415) | 6.8 (415) |
| Compression Ratio | | 17.2:1 | 17.2:1 |
| Fuel Consumption 100% Load | Litre/hr (US gal/hr) | 39.76 (10.50) | 51.29 (13.54) |
| Fuel Consumption 75% Load | Litre/hr (US gal/hr) | 31.05 (8.20) | 42 (11.09) |
| Fuel Consumption 50% Load | Litre/hr (US gal/hr) | 22 (5.81) | 29.17 (7.70) |
| Battery Size | (Cranking Amps) | 4D (1000) | 4D (1000) |
| Oil Capacity | Litres (US gal) | N/A | N/A |
| Coolant Capacity | Litres (US gal) | N/A | N/A |
| Thermostat Range | °C (°F) | 82-95 (180-203) | 82-95 (180-203) |
| Max Pressure Cap | kpa (psi) | N/A | N/A |
| Intake Air Flow | m ³ /min (cfm) | 12.6 (445) | N/A |
| Exhaust Gas Temperature | °C (°F) | 478 (892) | 516 (961) |
| Exhaust Gas Flow | m ³ /min (cfm) | 30.1 (1063) | 29.9 (1056) |
| Heat Rejection to Coolant | BTU/min | N/A | N/A |
| Ambient Capacity of Radiator | °C (°F) | N/A | N/A |
| Max Allowable Back Pressure on Exhaust | kpa (in Hg) | 7.5 (2.21) | 7.5 (2.21) |
| Air Flow Required Through Radiator | m ³ /min (cfm) | N/A | N/A |



12635 Hwy 421 S.
 Goldston, NC, 27252
 Phone: (919) 837-2959 | Fax: (919) 837-5374
 apsgenco.com | office@apsgenco.com

Authorized Dealer Stamp: