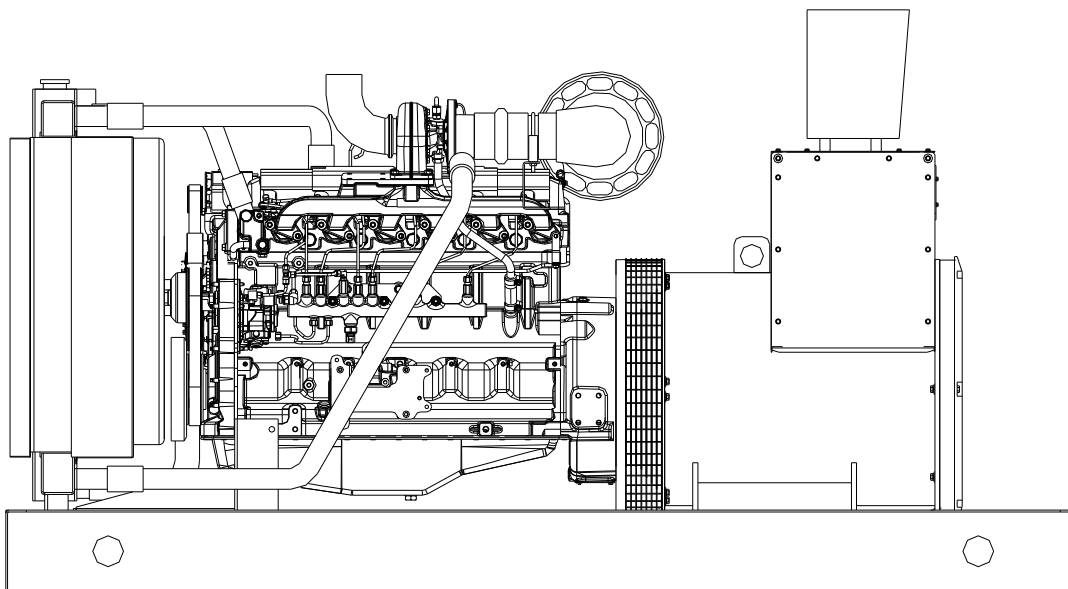


150 kW @ 60 Hz.
 Stand-By Power

D150F*J4T3

135 kW @ 60 Hz.
 Prime Power



- ▶ Katolight's commitment to quality has been an industry standard since 1952
- ▶ Katolight specializes in custom designing any application to meet the most difficult specifications
- ▶ Each and every unit is factory tested. This can eliminate costly startup and installation delays
- ▶ Katolight supplies a broad range of accessories to match any requirement worldwide
- ▶ Katolight generator sets come standard with a 2 year, 1500 hour limited warranty
- ▶ Optional warranty periods are also available, contact factory for details
- ▶ This model accepts 100% of nameplate rating, per NFPA 110
- ▶ This engine is EPA Tier III certified

Model #	Volts	Hz	Phase	Power Factor	Standby Ratings		Prime Ratings		Connection
					Amps	kW/kVA	Amps	kW/kVA	
D150FRJ4T3	277/480	60	3	0.8	226	150/187.5	203	135/168.75	12 LEAD HI WYE
D150FPJ4T3	120/208	60	3	0.8	520	150/187.5	468	135/168.75	12 LEAD LOW WYE
D150FJJ4T3	120/240	60	3	0.8	451	150/187.5	406	135/168.75	12 LEAD HI DELTA
D150FNJ4T3	347/600	60	3	0.8	180	150/187.5	162	135/168.75	4 LEAD WYE
D150FGJ4T3	120/240	60	1	1.0	625	150/150	563	135/135	12 LEAD ZIG-ZAG
D150FDJ4T3	120/240	60	1	1.0	625	150/150	563	135/135	4 LEAD

D150F*J4T3 DIESEL Gen-Set

STANDARD EQUIPMENT

CONTROL PANEL

- Model #50 control panel
- AC voltmeter, 3 1/2", 2% accuracy
- AC ammeter, 3 1/2", 2% accuracy
- Combination VM/AM selector switch, 4 position
- Frequency meter, 3 1/2", 55-65 Hz.
- Vibration shock mounts (4)
- Engine control - KASSEC-12 VDC, with cyclic cranking timer
- 4 engine shutdowns with separate failure lights
 - * High water temperature
 - * Low oil pressure
 - * Engine over-speed
 - * Engine over-crank
- Engine gauges - 2"
 - * Battery voltmeter
 - * Water temperature
 - * Oil pressure
 - * Running time meter - 5 digits
- 3 position mode switch (auto-off-manual)

ENGINE

- Air cleaner
- Oil pump
- Full flow oil filter
- Jacket water pump
- Thermostat
- Exhaust manifold – dry
- Blower fan & fan drive
- Radiator - unit mounted
- Vibration isolators - pad type
- Electric starting motor - 12V

ENGINE (cont.)

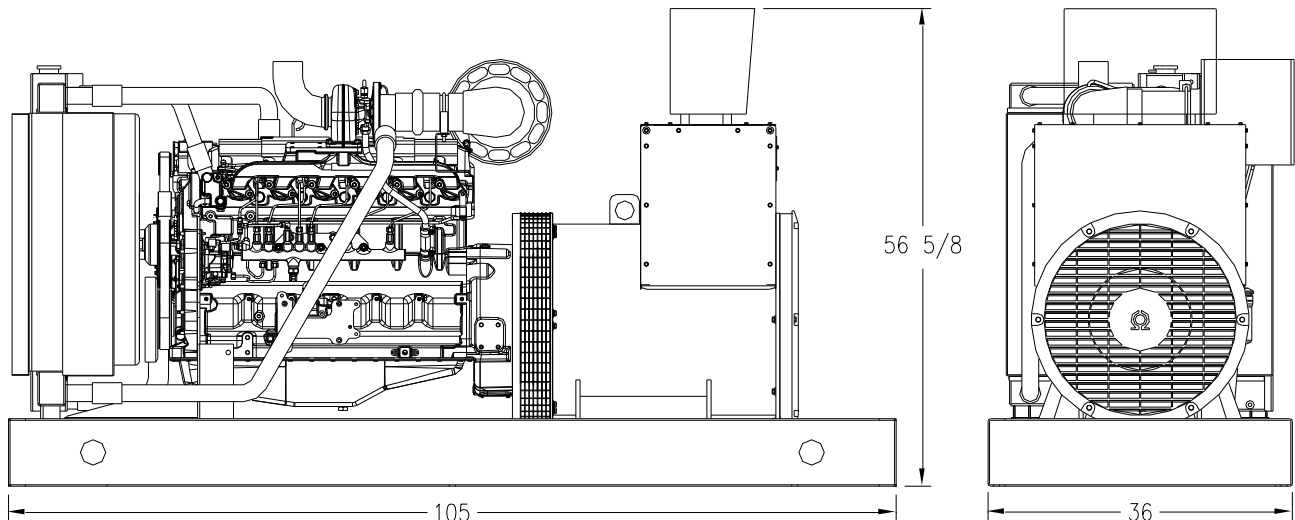
- Governor – Electric Isochronous
- Base - formed steel
- Flywheel & Enclosure
- Charging alternator - 12V
- Battery box & cables
- Flexible fuel & exhaust connectors
- EPA Certified Engine

GENERATOR

- A.C. Generator
- Brushless design
- Single bearing
- Direct connection with flex plate
- Class H insulation
- All models manufactured to meet NEMA MG1-22.4 and CSA standards
- Telephone influence factor is well within NEMA standards
- Wave form deviation factor is no more than 5%, well within NEMA standards
- Harmonic content is 3.0% maximum
- Permanently lubricated ball type bearings
- Generator is self-ventilated
- Drip-proof construction

VOLTAGE REGULATOR

- Voltage adjust rheostat
- EMI filter (Internal Electromagnetic Interference)
- Under-speed protection
- Over-excitation protection
- Fully encapsulated



Drawing above for illustration purposes only, based on standard open power 480 volt generator. Lengths may vary with other voltages.

ENGINE TECHNICAL DATA

60 Hz

Model:	6068HF285	
Type:	4-Cycle	
Aspiration:	Turbocharged - Air to Air	
Cylinder Arrangement: (Number, inline, V, etc.)	6-Inline	
Displacement - Cu. In. (lit)	415 (6.8)	
Bore - in. (cm) x stroke - in. (cm)	4.19 (10.6) x 5.00 (12.7)	
Compression Ratio:	19.0:1	
Rated RPM	1800	
Rating	Standby	Prime
BMEP: psi (kPa)	253.3 (1,746)	227.2 (1,567)
Maximum Power at Rated RPM - bhp (kW)	237 (177)	216 (161)

INSTALLATION DATA *

Exhaust System

Gas Temp. (Stack): °F (°C)	941 (505)	916 (491)
Gas Volume at Stack Temp.: CFM (m ³ /min)	1,201 (34.0)	1,165 (33.0)
Maximum Allowable Back Pressure: in. H ₂ O (kPa)	30 (7.5)	30 (7.5)

Cooling System

Ambient Capacity of Radiator: °F (°C)	122 (50)	122 (50)
Maximum Allowable Static Pressure on Rad. Exhaust: in. H ₂ O (kPa)	0.5 (0.12)	0.5 (0.12)
Water Pump Capacity: gpm (lit/min)	48 (180)	48 (180)
Heat Rejection to Coolant: BTUM (kW)	5,324 (93.5)	4,792 (84.3)
Heat Rejection to Air to Air: BTUM (kW)	1,821 (32)	1,702 (30)
Heat Radiated to Ambient: BTUM (kW)	1,375 (24.2)	1,163 (20.4)

Air Requirements

Aspirating: CFM (m ³ /min)	480 (13.6)	470 (13.3)
Air Flow Required for Rad. Cooled Unit: CFM (m ³ /min)	9,216 (261)	9,216 (261)
Air Flow Required for Heat Exchanger/Remote Rad. based on 25°F Rise: CFM (m ³ /min)	3,056 (86.5)	2,585 (73.2)

Fuel Consumption:

At 100% of Power Rating: gal/hr (lit/hr)	11.8 (44.7)	10.6 (40.1)
At 75% of Power Rating: gal/hr (lit/hr)	9.2 (34.8)	8.3 (31.4)
At 50% of Power Rating: gal/hr (lit/hr)	6.7 (25.4)	6.0 (22.7)

Sound Level Data ■

Sound level at:	Full Load	No Load	Full Load	No Load
23 ft (7m) opn w/ critical grade muffler (dBA)	C/F	C/F	C/F	C/F
23 ft (7m) Sound Attenuated Enclosure (dBA)	C/F	C/F	C/F	C/F

Dimensions & Weight

Length: in. (cm)	105 (267)
Width: in. (cm)	36 (91)
Height: in. (cm)	56.6 (144)
Weight (dry): lb. (kg)	3,098 (1,405)

Liquid Capacity

Total oil system: gal (lit)	5.28 (20.0)
Engine jacket water capacity: gal (lit)	3.25 (12.3)
System coolant capacity: gal (lit)	6.0 (22.7)

Electrical System

Electric volts DC	12
Cold cranking Amps under 0°F (-17.8°C)	800

Fuel System

Fuel Supply Connection Size:	³ / ₈ " NPT
Fuel Return Connection Size:	³ / ₈ " NPT
Maximum Fuel Lift: ft (m)	10 (3)
Recommended Fuel:	Diesel #2
Total Fuel Flow: gal/hr (lit/hr)	28.3 (107.2)

Remote Radiator System

Connection sizes:	
Jacket water radiator inlet in. (cm)	2.5 (6.35)
Jacket water radiator outlet in. (cm)	2.5 (6.35)
Air to Air Radiator inlet: in (cm)	3.0 (7.62)
Air to Air Radiator outlet: in (cm)	3.0 (7.62)
Static head allowable above engine: ft H ₂ O (kPa)	
	21 (62.8)

*Installation data based on 480 volt, 60 HZ. application and open power unit.

■ For sound level readings with other enclosures, please contact factory.

Sound level data acquired per test standard ISO 8528-10. Installation factors and site conditions can affect sound levels.

Deration Factor: Altitude: Derate: 0.5% per 1,000 ft (305 m) above 5,000 ft (1,524 m) and 4% per 1,000 ft (305 m) above 10,000 ft (3,048 m).

Temperature: Derate: 0.5% per 10°F (5.5°C) above 77°F (25°C)

D150F* J4T3 Diesel Gen-Set**Control Panel**

** NOTE: #50 series control panel is standard on all units, see page 2 of spec sheet for standard features.

- o Model #45 Series Control Panel Options
 - o Emergency stop button
 - o Alarm buzzer with silencing switch
 - o Auxiliary relay for dry contacts (2 max.)
 - o A separate low water level light is optional
 - o Hooded panel lights (2) and on/off switch
 - o NEMA 12 Panel Face
 - o Additional LED lights (4 max.) One or two of the following conditions may be indicated:
 - unit not in auto
 - low fuel level
 - low water level
 - low water temp.
 - EPS supplying load
 - pre-alarm oil
 - pre-alarm temp.
 - charger malfunction
- o Model #50 Series Control Panel
STANDARD FEATURES: same as #45 series control panel except for these added features:
 - o Hooded panel lights (2) and on/off switch
 - o 4 Engine shutdowns
 - o 12 light engine control package meeting NFPA-110 requirement
 - o Repetitive alarm buzzer and silencing switch
 - o Light and alarm press to test#50 SERIES OPTIONS
 - o Emergency stop button
 - o Additional space for one 3 1/2" meter
 - o Auxiliary relay for dry contacts (2 max.)
 - o A separate low water level light is optional
 - o Additional LED lights (4 max.) One to four additional conditions may be indicated: customer to specify
 - o NEMA 12 Panel Face
- o Model #60 and #80 Series Custom Control Panels
It may be necessary to use a 60 or 80 series control panel on certain units where numerous options are required.
- o Microprocessor Control Panel – KDGC

GEN-SET OPTIONS**Cooling System**

- o Remote Radiator
- o High Ambient Radiator
- o Heat Exchanger Cooling
- o Radiator Duct Flange

Fuel System

- o Fuel Water Separator
- o Day Tank
- o Above Ground Fuel Tank
- o Auxiliary Fuel Pump
- o Sub-Base mounted Fuel Tank
 - o Single Wall
 - o Double Wall
 - o UL Listed

Exhaust System

- o Residential Grade Muffler
- o Critical Grade Muffler
- o Hospital Grade Muffler
- o Rain Cap

Engine Electrical System

- o Battery
 - o Lead-Acid
 - o NiCad
- o Battery Warmer Plate
- o Battery Rack
- o Battery Charger
 - o Automatic
 - o Trickle
 - o Mounted & Wired

Generator

- o Main Line Circuit Breaker
 - o Shunt trip
 - o Auxiliary switch
- o PMG Excitation & DVR 2000 Regulator
- o Space Heaters 120/240 volt
- o Special Testing
- o Additional Temperature Rise Generators
Available (80°C, 105°C, & 130°C)

Additional Optional Equipment

- o Spring vibration isolators
- o Oil Drain Extension
- o Enclosures
 - o Sound Attenuated
 - o Weather Proof
 - o Aluminum
 - o Interior lights AC or DC
 - o Floor Plate
- o Jacket Water Heater
- o Crankcase Oil Heater
- o Trailer Mounting
- o Remote Annunciator
- o 12 Light Annunciator
 - o Flush Mounted
 - o Surface Mounted
 - o 4 additional lights, if needed
- o Export Boxing
- o Warranties
 - o 2 Year
 - o 5 Year
- o Operating instructions under plexi-glass
- o Service indicator light

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