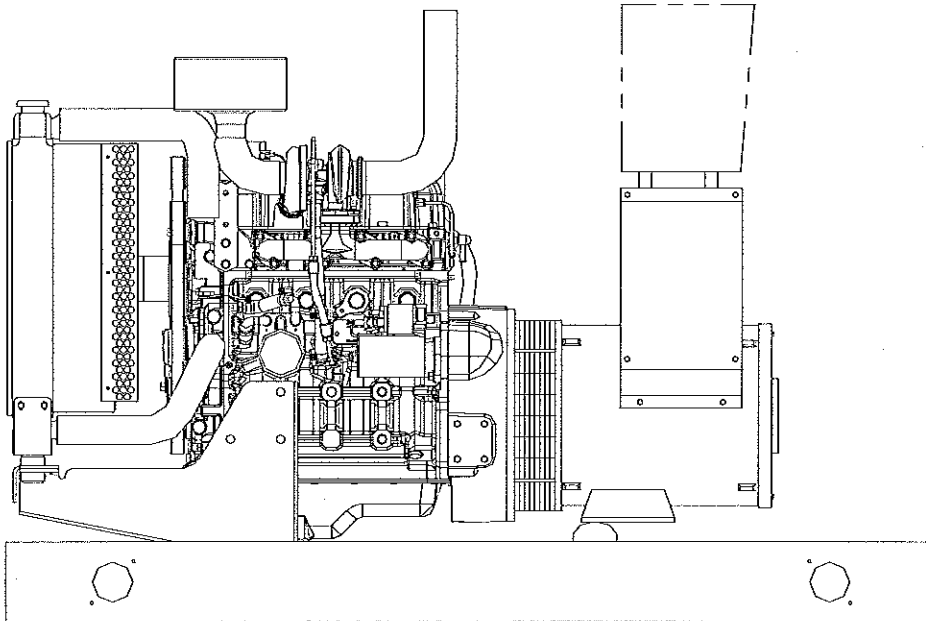


25 kW @ 60 Hz.  
Stand-By Power

**D25F\*J4T2**

20 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 II certified

Model #	Volts	Hz	Phase	Power Factor	Standby Ratings		Prime Ratings		Connection
					Amps	kW/kVA	Amps	kW/kVA	
D25FRJ4T2	277/480	60	3	0.8	38	25/31.25	30	20/25	12 LEAD HI WYE
D25FPJ4T2	120/208	60	3	0.8	87	25/31.25	69	20/25	12 LEAD LOW WYE
D25FJJ4T2	120/240	60	3	0.8	75	25/31.25	60	20/25	12 LEAD HI DELTA
D25FNJ4T2	347/600	60	3	0.8	30	25/31.25	24	20/25	4 LEAD WYE
D25FGJ4T2	120/240	60	1	1.0	104	25/25	83	20/20	12 LEAD ZIG-ZAG
D25FDJ4T2	120/240	60	1	1.0	104	25/25	83	20/20	4 LEAD

**D25F\*J4T2 DIESEL Gen-Set****STANDARD EQUIPMENT****CONTROL PANEL**

- Model #45 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 overspeed
  - \* Engine overcrank
- 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.)**

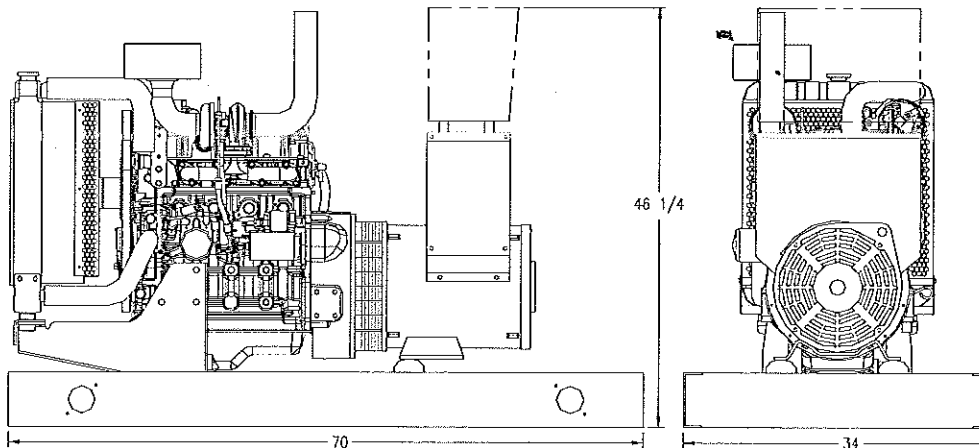
- Turbocharged
- Governor - Electric Isochronous
- Base - formed steel
- Flywheel & Enclosure
- Charging alternator - 12V
- Battery box & cables
- Flexible fuel & exhaust connectors
- EPA Certified Engine

**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)
- Underspeed protection
- Overexcitation protection
- Fully encapsulated
- Regulation - 1%



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

**ENGINE TECHNICAL DATA**

	<b>60 Hz</b>	
Model:.....	4024TF270	
Type:.....	4-Cycle	
Aspiration:.....	Turbocharged-Water to Air	
Cylinder Arrangement: (Number, inline, V, etc.) .....	4-inline	
Displacement - Cu. In. (lit).....	149 (2.4)	
Bore - in. (cm) x stroke - in. (cm) .....	3.4 (8.6) x 4.1 (10.5)	
Compression Ratio:.....	20.5:1	
Rated RPM .....	1800	
Rating	<b>Standby</b>	<b>Prime</b>
BMEP: psi (kPa).....	142 (981)	128 (883)
Maximum Power at Rated RPM - bhp(kW).....	48 (36)	43 (32)

**INSTALLATION DATA \***
**Exhaust System**

Gas Temp. (Stack): °F (°C).....	963 (517)	951 (511)
Gas Volume at Stack Temp.: CFM (m <sup>3</sup> /min).....	261 (7.4)	241 (6.8)
Maximum Allowable Back Pressure: in. H <sub>2</sub> 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 <sub>2</sub> O (kPa) .....	0.5 (0.12)	0.5 (0.12)
Water Pump Capacity: gpm (lit/min) .....	24 (91)	24 (91)
Heat Rejection to Coolant: BTUM (kW).....	1,303 (23)	1,267 (22.3)
Heat Radiated to Ambient: BTUM (kW).....	289 (5.0)	215 (3.8)

**Air Requirements**

Aspirating: CFM (m <sup>3</sup> /min).....	98 (2.8)	87 (2.5)
Air Flow Required for Rad. Cooled Unit: CFM (m <sup>3</sup> /min).....	3,875 (109.7)	3,875 (109.7)
Air Flow Required for Heat Exchanger/Remote Rad. based on 25°F Rise: CFM (m <sup>3</sup> /min).....	643 (18.2)	478 (13.5)

**Fuel Consumption:**

At 100% of Power Rating: gal/hr (lit/hr) .....	2.5 (9.5)	2.2 (8.3)
At 75% of Power Rating: gal/hr (lit/hr) .....	1.9 (7.2)	1.7 (6.4)
At 50% of Power Rating: gal/hr (lit/hr) .....	1.2 (4.5)	1.0 (3.8)

**Sound Level Data ■**

<b>Sound level at:</b>	<b>Full Load</b>	<b>No Load</b>	<b>Full Load</b>	<b>No Load</b>
23 ft (7m) opn w/ critical grade muffler (dBA).....	C/F	C/F	C/F	C/F
23 ft (7m) Sound Attenuated Enclosure (dBA).....	69	66	68	66

**Dimensions & Weight**

Length: in. (cm).....	70 (177.8)
Width: in. (cm) .....	34 (86.4)
Height: in. (cm) .....	46.25 (117)
Weight (dry): lb. (kg) .....	1,034 (469)

**Liquid Capacity**

Total oil system: gal (lit).....	2.1 (8.0)
Engine jacket water capacity: gal (lit).....	0.675 (2.6)
System coolant capacity: gal (lit).....	2.29 (8.7)

**Electrical System**

Electric volts DC .....	12
Cold cranking Amps under 0°F (-17.8°C) .....	750

**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) .....	26.4 (100)

**Remote Radiator System**

Connection sizes:	
Jacket water radiator inlet in. (cm) .....	1.75 (4.45)
Jacket water radiator outlet in. (cm) .....	1.75 (4.45)
Static head allowable above engine ft H <sub>2</sub> 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 Method SAE J1074. Installation factors and site conditions can affect sound levels.

Deration Factor: Altitude: Derate: 4% per 1,000 ft (305m) above 10,000 ft (3,050 m). Temperature: Derate: 0.5% per 10°F (5.5°C) above 77°F (25°C)

**D25F\*J4T2 Diesel Gen-Set****Control Panel**

\*\* NOTE: #45 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

DISTRIBUTED BY: