

# DIESEL



# D350F\*V4

# D330F\*V5

## 350 KW @ 60 Hz.

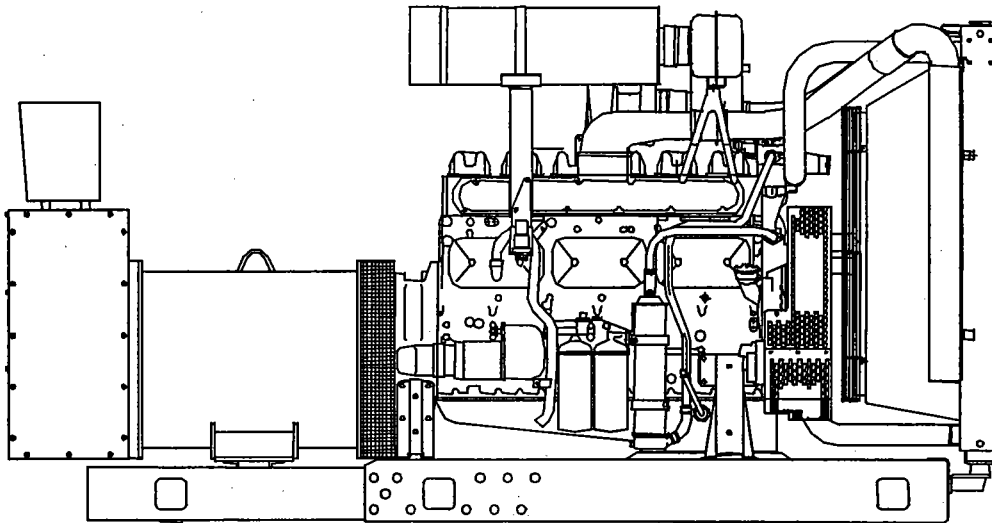
## 330 KW @ 50 Hz.

### Stand-By Power

## 315 KW @ 60 Hz.

## 300 KW @ 50 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 customers' most stringent specifications.
- Each and every unit is factory tested. This can eliminate costly startup and installation delays.
- Katolight supplies a broad range of accessories, fully integrated to our generator sets, to match any requirement worldwide.
- All generator set components and accessories are covered by Katolight with a limited two-year warranty. Optional warranty periods are also available.
- Katolight product accepts 100% of nameplate rating, per NFPA 110, in one step.

Katolight Model	Volts	Hz	Phase	Power Factor	Standby Amps	Standby Ratings kW/kVA	Prime Ratings kW/kVA	Connection
D350FRV4	277/480	60	3	0.8	526	350/437.5	315/393.75	12 LEAD HI WYE
D350FPV4	120/208	60	3	0.8	1,214	350/437.5	315/393.75	12 LEAD LOW WYE
D350FJV4	120/240	60	3	0.8	1,052	350/437.5	315/393.75	12 LEAD HI DELTA
D350FNV4	347/600	60	3	0.8	421	350/437.5	315/393.75	4 LEAD WYE
D350FGV4	120/240	60	1	1.0	1,458	350/350	315/315	12 LEAD ZIG-ZAG
D330FRV5	220/380	50	3	0.8	627	330/412.5	300/375	12 LEAD HI WYE
D330FPV5	110/190	50	3	0.8	1,253	330/412.5	300/375	12 LEAD LOW WYE
D330FJV5	110/220	50	3	0.8	1,083	330/412.5	300/375	12 LEAD HI DELTA
D330FGV5	110/220	50	1	1.0	1,500	330/330	300/300	12 LEAD ZIG-ZAG

# KATOLIGHT

## D350F\*V4 Diesel Gen-Set

### STANDARD EQUIPMENT

#### CONTROL PANEL

- Model #45 control panel
- AC voltmeter, 3½", 2% accuracy
- AC ammeter, 3½", 2% accuracy
- Combination VM/AM selector switch, 4 position
- Frequency meter, 3½", 55-65 Hz.
- Vibration shock mounts (4)
- Engine control - KASSEC-12 or 24 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 charging DC ammeter
  - \* Water temperature
  - \* Oil pressure
  - \* Running time meter - 5 digits
- 3 position mode switch (auto-off-manual)

#### ENGINE

- Air cleaner
- Fuel pump
- Fuel filter
- Oil pump
- Full flow oil filter
- Jacket water pump
- Thermostat
- Exhaust manifold - dry
- Oil cooler
- Blower fan & fan drive
- Radiator - unit mounted
- Vibration isolators - pad type
- Electric starting motor - 24v

#### ENGINE (cont.)

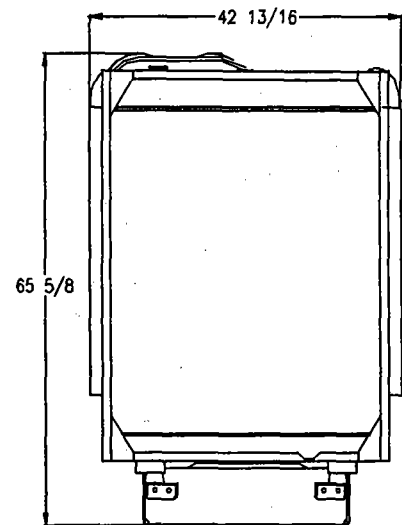
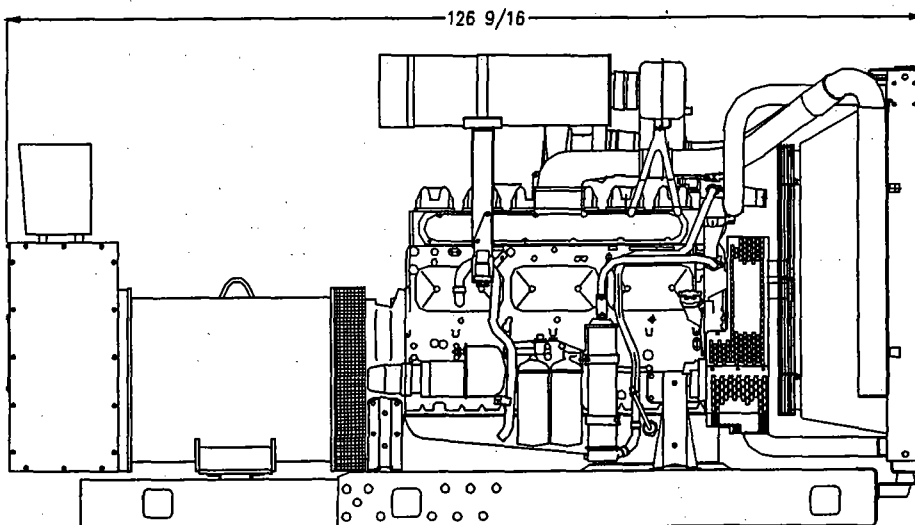
- Turbocharged
- Governor - Electric Isochronous
- Base - formed steel
- Flywheel & Housing
- Charging alternator - 24v
- Battery box & cables
- Flexible fuel & exhaust connectors

#### 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% 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%



For illustration purposes only.

# KATOLIGHT

## D350F\*V4 Diesel Gen-Set

### ENGINE TECHNICAL DATA

60 Hz

50 Hz

Model:.....	TAD1232GEP
Type:.....	4 - Cycle
Aspiration:.....	Turbocharged
Cylinder Arrangement:	
(Number, inline, V, etc.):.....	6 - Inline
Displacement - Cu. In. (lit).....	731 (11.9)
Bore - in. (cm) x stroke - in. (cm).....	5.12 (13.0) x 5.91 (15.0)
Compression Ratio:.....	14:1
BMEP: psi (kPa).....	320 (2,206) ..... 357 (2,461)
Maximum Power at Rated RPM - hp(kW).....	533 (392) ..... 494 (363)

### INSTALLATION DATA \*

#### Dimensions & Weight

Length: in. (cm).....	126.56 (321.47)
Width: in. (cm).....	42.81 (108.74)
Height: in. (cm).....	65.66 (166.69)
Weight (dry) : lb. (Kg).....	5,501 (2,495)

#### Liquid Capacity

Total Oil System: gal/(lit).....	10.0 (38)
Engine Jacket Water Capacity: gal/(lit).....	6.1 (23)
System Coolant Capacity: gal/(lit).....	12.7 (48)

#### Electrical System

Electric Volts DC.....	24
Cold Cranking Amps	
under 0°F (-17.8°C).....	1,155

#### Exhaust System

Gas Temp. (Stack): °F (°C).....	1,004 (540).....	1,072 (580)
Gas Volume at Stack Temp.: CFM (m³/min).....	2,822 (79.7).....	2,592 (73.4)
Maximum Allowable Back		
Pressure: in. H2O (kPa).....	28.1 (6.9).....	20.1 (5.0)
Emissions - HC: g/hp-hr.....	.19.....	C/F
Emissions - CO: g/hp-hr.....	1.29.....	C/F
Emissions - NO <sub>x</sub> : g/hp-hr.....	4.62.....	C/F

#### Cooling System

Ambient Capacity of Radiator: °F °C.....	130 (54).....	130 (54)
Maximum Allowable Static		
Pressure on Rad. Exhaust: in. H2O (kPa).....	.5 (.12).....	.5 (.12)
Water Pump Capacity: gpm (lit/min).....	116 (438).....	97 (366)
Heat Rejection to Coolant: BTUM (kW).....	6,940 (122).....	6,830 (120)
Heat Radiated to Ambient: BTUM (kW).....	2,595 (46).....	2,752 (48)

#### Air Requirements

Aspirating: CFM (m³/min).....	1,030 (29.1).....	880 (24.9)
Air Flow Required for Rad.		
Cooled Unit: CFM (m³/min).....	13,985 (396).....	11,442 (324)
Air Flow Required for Heat		
Exchanger/Remote Rad.		
based on 20°F Rise: CFM (m³/min).....	7,208 (204).....	7,644 (216)

#### Fuel Consumption: gal/hr (lit/hr)

At 100% of Power Rating:.....	25.6 (96.8).....	23.7 (89.7)
At 75% of Power Rating:.....	18.6 (70.4).....	17.7 (66.9)
At 50% of Power Rating:.....	12.6 (47.7).....	11.5 (43.7)

#### Sound Level Data †

Sound level at full load		
23 ft (7m) opn w/ critical grade muffler (dBA).....	91.....	87
23 ft (7m) Sound Attenuated Housing (dBA).....	82.....	78
Sound level at no load		
23 ft (7m) opn w/ critical grade muffler (dBA).....	88.....	84
23 ft (7m) Sound Attenuated Housing (dBA).....	77.....	74

#### Deration

Altitude	
4% per 1,640 ft above.....	3,280 ft
4% per 500 m above.....	1,000 m
Temperature	
1.5% per 9°F above.....	104°F
1.5% per 5°C above.....	40°C

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

† For sound level readings with other Katolight housings, please contact factory.

Sound level data acquired per Test Method SAE J1074. Installation factors and site conditions can affect sound levels.

# OPTIONS

# Diesel Gen-Set

## Control Panel

\*\* NOTE: #45 series control panel is standard on this model, see page 2 of spec sheet for standard features.

- Model #45 Series Control Panel Options
  - Emergency stop button
  - Alarm buzzer with silencing switch
  - Auxiliary relay for dry contacts (2 max.)
  - Low water level shutdown is paralleled with high water temp. light on control panel
  - Hooded panel lights (2) and on/off switch
  - NEMA 12 Panel Face
  - 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

### ○ Model #50 Series Control Panel

STANDARD FEATURES: same as #45 series control panel except for these added features:

- Hooded panel lights (2) and on/off switch
- 4 Engine shutdowns
- 12 light engine control package meeting NFPA-110 requirement
- Repetitive alarm buzzer and silencing switch
- Light and alarm press to test

### #50 SERIES OPTIONS

- Emergency stop button
- Additional space for one 3 1/4" meter
- Auxiliary relay for dry contacts (2 max.)
- Low water level shutdown is paralleled with high water temp. light on control panel
- Additional LED lights (4 max.) One to four additional conditions may be indicated: customer to specify
- NEMA 12 Panel Face
- 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.
- Microprocessor control panel

## GEN-SET OPTIONS

### Cooling System

- Radiator Duct Flange

## Fuel System

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

## Exhaust System

- Industrial Grade Muffler
- Residential Grade Muffler
- Critical Grade Muffler
- Rain Cap

## Engine Electrical System

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

## Generator

- Main Line Circuit Breaker (2-pole or 3-pole)
  - Shunt trip
  - Auxiliary switch
- PMG Excitation & DVR 2000 Regulator
- Space Heaters 120/240 volt
- Special Testing

## Additional Optional Equipment

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

