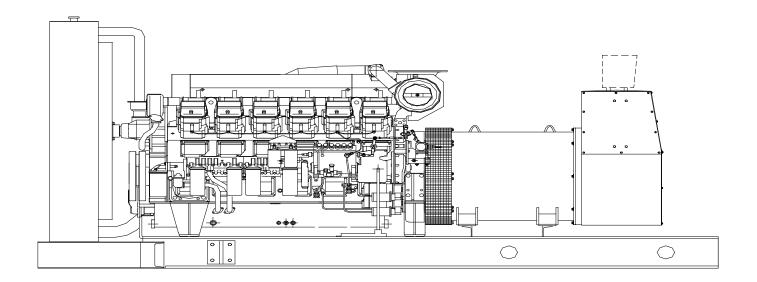
DIESEL

D1250F*Y4

1250 KW @ 60 Hz. Stand-By Power

1120 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 customers' 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, fully integrated to our generator sets, 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.

Katolight Model	Volts	Hz	Phase	Power Factor	Standby Amps	Standby Ratings kW/kVA	Prime Ratings kW/kVA	Connection
D1250FRY4	277/480	60	3	0.8	1879	1250/1562.5	1120/1400	4 LEAD WYE
D1250F*Y4	220/380	60	3	0.8	2374	1250/1562.5	1120/1400	4 LEAD WYE
D1250FNY4	347/600	60	3	0.8	1504	1250/1562.5	1120/1400	4 LEAD WYE
D1250FSY4	2400/4160	60	3	0.8	217	1250/1562.5	1120/1400	6 LEAD WYE

Form 1250Y/0103

KATOLIGHT

D1250F*Y4 Diesel Gen-Set

STANDARD EQUIPMENT

CONTROL PANEL

- Model #45 control panel
- AC voltmeter, 31/2, 2% accuracy
- AC ammeter, 3¹/₂, 2% accuracy
- Combination VM/AM selector switch, 4 position
- Frequency meter, 3¹/₂, 55-65 Hz.
- Vibration shock mounts (4)
- Engine control KASSEC- 24 VDC, with cyclic cranking timer
- 4 engine shutdowns with separate failure lights
 - * High water temperature / Low water level
 - * 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
- 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.)

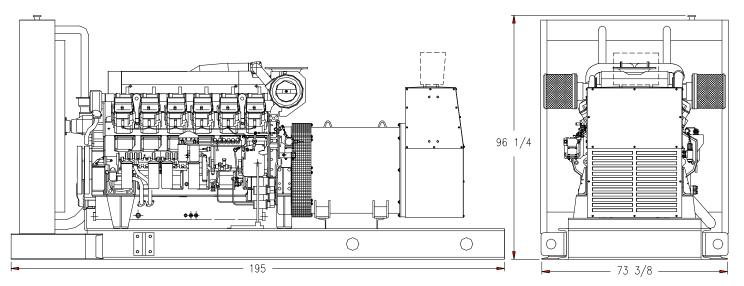
- Turbocharged
- Governor Electric Isochronous
- Base formed steel
- Housing & flywheel
- Charging alternator 24v
- Battery box & cables
- Flexible fuel & exhaust connectors

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 3.0% maximum
- Regreasable type ball 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 ±.25%



KATOLIGHT

D1250F*Y4 Diesel Gen-Set

ENGINE TECHNICAL DATA		<u>60 Hz</u>
Model:		S12R-PTA2
Type:		4-Cycle
Aspiration:	Turboch	narged - Aftercooled
Cylinder Arrangement:		
(Number,inline,V,etc.):		12-V
Displacement - Cu. In. (lit)		
Bore - in. (cm) x stroke - in. (cm)		
Compression Ratio:	,	, , ,
Rated RPM		
Rating		
BMEP: psi (kPa)		
Maximum Power at Rated RPM - bhp(kW)	1,972 (1,471)	1,796 (1,340)
NSTALLATION DATA *		
Dimensions & Weight		
Length: in. (cm)		195 (495)
Width: in. (cm)		. 73.4 (186)
Height: in. (cm)		. 96.3 (245)
Weight (dry): lb. (Kg)	1	8,505 (8,394)
Liquid Capacity		
Total Oil System: gal (lit)		. 47.6 (180)
Engine Jacket Water Capacity: gal (lit)		
System Coolant Capacity: gal (lit)		. 98.7 (374)
Electrical System		
Electric Volts DC		24
Cold Cranking Amps		
to 23°F (-5°C)		1,250
Exhaust System		
	914 (490)	878 (470)
Gas Volume at Stack Temp.: CFM (m³/min)		
Maximum Allowable Back (, , ,	, , ,
Pressure: in. H ₂ 0 (kPa)	23.6 (5.9)	23.6 (5.9)
		`C/É
Emissions - NO _x : g/hp-hr	7.2	
Cooling System		
	122 (50)	122 (50)
Ambient Capacity of Radiator: °F (°C) Maximum Allowable Static	122 (50)	122 (50)
Pressure on Rad. Exhaust: in. H ₂ O (kPa)	0.5 (.12)	0.5 / 12)
Water Pump Capacity: gpm (lit/min)	490 (1 950)	490 (1 950)
		43,874 (771)
Air Requirements	10,047 (177)	
	4 102 (116)	2 994 (110)
Aspirating: CFM (m³/min) Air Flow Required for Rad.	4,102 (116)	3,884 (110)
Cooled Unit: CEM (m ³ /min)	49 520 (1 274)	
Air Flow Required for Heat	46,520 (1,574)	40,210 (1,309)
•		
Exchanger/Remote Rad. based on 20°F Rise: CFM (m³/min)	27 008 (700)	21 917 (619)
	27,908 (790)	21,817 (618)
Fuel Consumption: gal/hr (lit/hr)	00.0 (04.4)	00.0 (007)
At 100% of Power Rating:		
At 75% of Power Rating:		
At 50% of Power Rating:	43.1 (163)	45.1 (170)
Sound Level Data ◆		
Sound level at full load		
23 ft (7m) opu w/ critical grade muffler (dBA)		
23 ft (7m) Sound Attenuated Housing (dBA)	83.1	82.7
Sound level at no load		
23 ft (7m) opu w/ critical grade muffler (dBA)		
23 ft (7m) Sound Attenuated Housing (dBA)	82.4	82.0
Deration		
Altitude		
2.5% per 984 ft above		
2.5% per 300 m above		1,500 m
Temperature		_
4% per 18°F above		
4% per 10°C above		40°C
* Installation data based on 480 volt. 60 Hz. application and open powe	r unit	

^{*} 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

$C \cap$	ntr	'n	Panel	
\mathbf{v}		vı	ı ancı	

- ** 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 31/2 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
 - □ Single Wall
 - □ Double Wall
 - □ UL Listed

Exhaust System

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

Engine Electrical System

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

Generator

- O Main Line Circuit Breaker
 - ☐ Shunt trip
 - ☐ Auxiliary switch
- O PMG Excitation & DVR 2000 Regulator
- O Medium voltage available up to 4160 volt
- 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 Housings
 - □ Sound Attenuated
 - □ Weather Proof
 - □ Aluminum
 - □ Interior lights AC or DC
 - ☐ Floor Plate
- O Jacket Water Heater
- O Crankcase Oil Heater
- O Remote Annunciator
- O 12 Light Annunciator
 - ☐ Flush Mounted

 - □ Surface Mounted
 - ☐ 4 additional lights, if needed
- O Export Boxing
- O Warranties
 - □ 2 Year
 - □ 5 Year
- O Operating instructions under plexi-glass
- O Service indicator light