

HF-130GF | 130 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency



Standby Power Rating

143 kW, 178.8 kVA, 60 Hz

Prime Power Rating*

130 kW, 162.5 kVA, 60 Hz

**EPA Certified Prime ratings are not available in the US or its Territories.*



Image used for illustration purposes only

CODES AND STANDARDS

Not all codes and standards apply to all configurations. Contact factory for details.

- UL2200, UL6200, UL1236, UL489, UL142
- CSA C22.2, ULC S601
- BS5514 and DIN 6271
- SAE J1349
- NFPA 37, 70, 99, 110
- NEC 700, 701, 702, 708
- NEMA ICS10, MG1, 250, ICS6, AB1
- ANSI C62.41
- IBC 2009, CBC 2010, IBC 2012, ASCE 7-05, ASCE 7-10, ICC-ES AC-156 (2012)

POWERING AHEAD

Haifeng Power delivers innovative design and superior manufacturing across its industrial generator line.

Haifeng Power provides superior quality by engineering and manufacturing core generator components, including alternators, enclosures and base tanks, control systems and communications software.

Haifeng Power selects only engines proven in heavy-duty industrial applications under adverse conditions, and is committed to service support that continues after the generator purchase.

STANDARD FEATURES

ENGINE SYSTEM

- Oil Drain Extension
- Heavy Duty Air Cleaner
- Level 1 Fan and Belt Guards (Open Set Only)
- Stainless Steel Flexible Exhaust Connection
- Factory Filled Oil and Coolant
- Radiator Duct Adapter (Open Set Only)
- Critical Silencer

FUEL SYSTEM

- Fuel Lockoff Solenoid
- Primary Fuel Filter

COOLING SYSTEM

- Closed Coolant Recovery System
- UV/Ozone Resistant Hoses
- Factory-Installed Radiator
- Radiator Drain Extension
- 50/50 Ethylene Glycol Antifreeze
- 120 VAC Coolant Heater

ELECTRICAL SYSTEM

- Battery Charging Alternator
- Battery Cables
- Battery Tray
- Rubber-Booted Engine Electrical Connections
- Solenoid Activated Starter Motor

ALTERNATOR SYSTEM

- Alternator Protection System
- 12 Leads (3-Phase, Non 600V)
- Class H Insulation Material
- Vented Rotor
- 2/3 Pitch
- Skewed Stator
- Auxiliary Voltage Regulator Power Winding
- Sealed Bearings
- Automated Manufacturing (Winding, Insertion, Lacing, Varnishing)
- Rotor Dynamically Spin Balanced
- Amortisseur Winding
- Full Load Capacity Alternator
- Protective Thermal Switch

GENERATOR SET

- Internal Genset Vibration Isolation
- Separation of Circuits - High/Low Voltage
- Separation of Circuits - Multiple Breakers
- Wrapped Exhaust Piping
- Standard Factory Testing
- 2 Year Extended Limited Warranty (Standby Rated Units)
- 1 Year Extended Limited Warranty (Prime Rated Units)

ENCLOSURE (IF SELECTED)

- Rust-Proof Fasteners with Nylon Washers to Protect Finish
- High Performance Sound-Absorbing Material (Sound Attenuation Enclosures)
- Gasketed Doors
- Upward Facing Discharge Hoods (Radiator and Exhaust)
- Stainless Steel Lift Off Door Hinges
- Stainless Steel Lockable Handles
- Textured Polyester Powder Coat Paint

FUEL TANK

- 10 Hour Capacity
- Double Wall
- Vents
- Factory Pressure Tested - 2 PSI
- Rupture Basin Alarm
- Fuel Level
- Check Valve In Supply and Return Lines
- Textured Polyester Powder Coat Paint
- Stainless Steel Hardware

CONTROL SYSTEM

DSE7320 Digital Control Panel

PROGRAM FUNCTIONS

- Programmable Crank Limiter
- 7-Day Programmable Exerciser
- Special Applications Programmable Logic Controller
- RS-232/485 Communications
- All Phase Sensing Digital Voltage Regulator
- 2-Wire Start Capability
- Date/Time Fault History (Event Log)
- Isochronous Governor Control
- Waterproof/Sealed Connectors
- Audible Alarms and Shutdowns
- Not in Auto (Flashing Light)
- Auto/Off/Manual Switch
- E-Stop (Red Mushroom-Type)
- NFPA110 Level I and II (Programmable)
- Modbus® Protocol
- Predictive Maintenance Algorithm
- Single Point Ground

FULL SYSTEM STATUS DISPLAY

- Power Output (kW)
- Power Factor
- kW Hours, Total, and Last Run
- Real/Reactive/Apparent Power
- All Phase AC Voltage
- All Phase Currents
- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Speed
- Battery Voltage
- Frequency

ALARMS AND WARNINGS

- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Overspeed
- Battery Voltage
- Time and Date Stamped
- Snap Shots of Key Operation Parameters
- Alarms Spelled Out (No Alarm Codes)

CONFIGURABLE OPTIONS

ENGINE SYSTEM

- Block Heater
- Oil Make-Up System
- Oil Heater
- Industrial Exhaust Silencer (Open Set Only)

FUEL SYSTEM

- Flexible Fuel Lines
- Primary Fuel Filter

ELECTRICAL SYSTEM

- 10A UL Listed Battery Charger
- Battery Warmer

ALTERNATOR SYSTEM

- Alternator Upsizing
- Anti-Condensation Heater
- Tropical Coating

CIRCUIT BREAKER OPTIONS

- Main Line Circuit Breaker
- 2nd Main Line Circuit Breaker
- Shunt Trip and Auxiliary Contact
- Electronic Trip Breakers

GENERATOR SET

- Extended Factory Testing
- IBC Seismic Certification
- 8 Position Load Center

ENCLOSURE

- Weather Protected Enclosure
- Level 1 Sound Attenuated
- Level 2 Sound Attenuated
- Steel Enclosure
- Aluminum Enclosure
- Up to 200 MPH Wind Load Rating (Contact Factory)
- AC/DC Enclosure Lighting Kit
- Spring or Pad Vibration Isolators

FUEL TANK

- Overfill Protection Valve
- Fuel Fill Drop Tube
- 5 Gal Spill Return Hose
- Tank Risers
- Vent Extensions
- Fire Rated Fuel Hose
- Fill Extensions

CONTROL SYSTEM

- NFPA 110 Compliant 21-Light Remote Annunciator
- Remote Relay Assembly (8 or 16)
- Remote E-Stop (Break Glass-Type, Surface Mount)
- Remote E-Stop (Mushroom-Type, Surface Mount)
- Remote E-Stop (Mushroom-Type, Flush Mount)
- 10A Engine Run Relay
- Ground Fault Annunciator

WARRANTY

- 2 Year Extended Limited Warranty
- 5 Year Extended Limited Warranty

ENGINEERED OPTIONS

ENGINE SYSTEM

- Coolant Heater Ball Valves
- Fluid Containment Pan

CONTROL SYSTEM

- Spare Inputs (x4) / Outputs (x4)
- Battery Disconnect Switch

ALTERNATOR SYSTEM

- 3rd Breaker System

GENERATOR SET

- Special Testing
- Motorized Dampers
- Door Open Alarm Horn

APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General

Make	Perkins 1106D-E70TAG2
EPA Emissions Compliance	EPA Tier 3 (Stationary Emergency)
Cylinder #	6
Type	In-line
Displacement - in ³ (L)	428 (7.01)
Bore - in (mm)	4.13 (105)
Stroke - in (mm)	5.31 (135)
Compression Ratio	16.8:1
Intake Air Method	Turbocharged & Aftercooled
Cylinder Head	Cast Iron
Piston Type	Aluminum
Crankshaft Type	Forged Steel

Engine Governing

Governor	Electronic
Frequency Regulation (Steady State)	±0.5%

Lubrication System

Oil Pump Type	Gear Driven
Oil Filter Type	Full-Flow Spin-On Cartridge
Crankcase Oil Capacity - qt (L)	17.4 (16.5)

ALTERNATOR SPECIFICATIONS

Standard Model	Stamford UCI274F
Poles	4
Field Type	Revolving
Insulation Class - Rotor	H
Insulation Class - Stator	H
Total Harmonic Distortion	<5%
Telephone Interference Factor (TIF)	<50

Cooling System

Cooling System Type	Closed Recovery
Water Pump Type	Belt-Driven, Centrifugal
Fan Type	Pusher
Fan Speed - RPM	2,538
Fan Diameter - in (mm)	23.6 (599)

Fuel System

Fuel Type	Ultra Low Sulfur Diesel #2
Fuel Specifications	ASTM
Fuel Filtering (Microns)	5
Fuel Inject Pump Make	Electronic Unit Injector
Fuel Pump Type	Engine Driven
Injector Type	Direct
Engine Type	Direct Injection
Fuel Supply Line - in (mm)	0.5 (12.7) NPT
Fuel Return Line - in (mm)	0.5 (12.7) NPT

Engine Electrical System

System Voltage	12 VDC
Battery Charger Alternator	Standard
Battery Size	2 × 12 V (Group 31)
Battery Voltage	12 VDC
Ground Polarity	Negative

Standard Excitation	Brushless, Self-Excited
Bearings	Single Sealed
Coupling	Direct, Flexible Disc
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Digital AVR
Number of Sensed Phases	All
Regulation Accuracy (Steady State)	±1.0%

OPERATING DATA

POWER RATINGS - DIESEL (STANDBY)

Connection	Power	Current
Single-Phase 120/240 VAC @1.0pf	130 kW	542 A
Three-Phase 120/240 VAC (high-leg) @0.8pf	130 kW	391 A
Three-Phase 120/208 VAC @0.8pf	130 kW	451 A
Three-Phase 277/480 VAC @0.8pf	130 kW	195 A
Three-Phase 346/600 VAC @0.8pf	130 kW	156 A

MOTOR STARTING CAPABILITIES (SKVA VS. VOLTAGE DIP)

277/480 VAC 3Ø	sKVA @30%	208/240 VAC 3Ø	sKVA @30%
UCI274F	327	UCI274F	327

Fuel Consumption Rates – Diesel gph (Lph), Standby

25% Load	2.9 (11.0)
50% Load	5.4 (20.4)
75% Load	7.7 (29.1)
100% Load	9.6 (36.3)
Fuel Pump Lift - ft (m)	3 (1)
Total Fuel Pump Flow (Combustion + Return) - gph (Lph)	29.1 (110.2)

Cooling (Standby)

Coolant Flow - gpm (Lpm)	44.6 (168.8)
Coolant System Capacity - gal (L)	5.5 (21)
Heat Rejection to Coolant - BTU/hr (kW)	353,900 (103.6)
Inlet Air - cfm (m³/hr)	7,900 (223.7)
Maximum Operating Ambient Temperature - °F (°C)	122 (50)
Maximum Additional Radiator Backpressure - in H2O (kPa)	0.5 (0.12)

Combustion Air Requirements (Standby)

Flow at Rated Power - cfm (m³/min)	390 (11.1)
------------------------------------	------------

Engine (Standby)

Rated Engine Speed - RPM	1,800
Horsepower at Rated kW - hp	216
Piston Speed - ft/min (m/min)	1,594 (486)
BMEP - psi (kPa)	222 (1,531)

Exhaust (Standby)

Exhaust Flow (Rated Output) - cfm (m³/min)	910 (25.8)
Maximum Allowable Backpressure - inHg (kPa)	1.5 (5.1)
Exhaust Temperature (Rated Output) - °F (°C)	960 (516)

*Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions. All performance ratings in accordance with BS5514 and DIN6271 standards. *Fuel supply installation must accommodate fuel consumption rates at 100% load.*