Hipower HDI Line Standby Diesel Generators





Global Power Supply is proud to present the new Hipower HDI Industrial Diesel Stationary Generator Line from 130 kW - 600 kW. Hipower heavy duty industrial diesel generators are an efficient, reliable, and versatile source of back-up electrical power. Designed to operate in the most extreme working conditions, all Hipower HDI industrial diesel generators combine an innovative design and easy to operate controls. Hipower generators are made in the USA of the highest quality materials, and provide the most dependable source of emergency backup power on the market today.

Model	Standby kW	EPA Rating	Voltage	Engine
HDI-130F	130	Tier 3	277/480	FPT - lveco
HDI-160F	160	Tier 3	277/480	FPT - lveco
HDI-180F	185	Tier 3	277/480	FPT - lveco
HDI-200F	200	Tier 3	277/480	FPT - Iveco
HDI-230F	230	Tier 3	277/480	FPT - Iveco
HDI-250F	250	Tier 3	277/480	FPT - lveco
HDI-400 T6U	400	Tier 3	277/480	VOLVO PENTA
HDI-515 T6U	515	Tier 2	277/480	VOLVO PENTA
HDI-600 T6U	600	Tier 2	277/480	VOLVO PENTA

Empowering You

We are a full service provider of new and used integrated power systems including diesel generators, natural gas generators, genset enclosures, fuel tanks, automatic transfer switches (ATS), and paralleling switchgear.



FOR MORE INFORMATION:

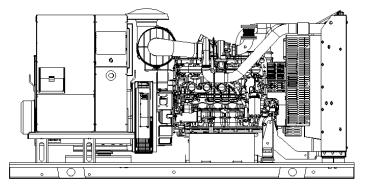
(800) 706-0906 info@globalpwr.com

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Heavy Duty Industrial DIESEL GENERATOR

MODEL HDI-250F

60Hz STANDBY POWER RATINGS



250kW/60Hz//1800RPM

VOLTAGE VAC	120/240V	120/208V	139/240V	277/480V	347/600V
RATING	Standby	Standby	Standby	Standby	Standby
PHASE	N/A	3	3	3	3
PF	N/A	0.8	0.8	0.8	0.8
HZ	N/A	60	60	60	60
KW	N/A	260	260	258	250
KVA	N/A	325	325	322	312
AMPS	N/A	902	781	389	301

Description

HIPOWER[®] Heavy Duty Industrial generators are an efficient, reliable and versatile source of back-up electrical power that have been designed to operate in the most extreme working conditions. All HIPOWER[®] Heavy Duty Industrial generators combine an innovative design and the use of high quality materials that provide the user with the most dependable power that can be relied on for non-stop power with easy to operate controls.

Powered by a radiator-cooled, industrial FPT Diesel engine that meets current Environmental Protection Agency (EPA) TIER 3 exhaust emission regulations, driving a single bearing, four-pole, three-phase alternator, with IP23 protection. The Emergency Power kVA rating is given with a 125 degree °C alternator winding temperature rise.

HIPOWER® Features and Benefits

FTP Diesel Engine: Long-life, heavy-duty, 4-cycle, direct injection engine for economy of operation and maximum reliability and durability.

Cooling: Radiator with belt driven pusher fan.

Air Filter: Heavy-duty replaceable element air-cleaner.

Alternator: Single bearing, rotating field, self-excited, self-ventilated, 12-wire reconnectable, 60Hz brushless alternator and Class H insulation. Automatic voltage regulator (AVR) providing close voltage regulation and skVA starting capability for electric motor loads. **Enclosure:** Fully sound attenuated enclosure, manufactured using 7-gauge steel and thicker for the base; 12-gauge and 14-gauge for the enclosure, Interpon

A4700 primer, in combination with Interpon 600 series coatings, are designed for exterior exposure and offers excellent light and weather resistance exceeding 1400hr salt spray test. A 1" thick layer of durable sound insulating, oil and fire resistant foam material is installed all around the inside of the enclosure to allow high-pressure water cleaning. Vertical air discharge for quiet operation. Wide steel lockable access doors with rubber seals, easy access for maintenance and service activities, lift off Die Cast Zinc hinges textured black powder coat and corrosion resistant hardware and fasteners.

Exhaust: Low noise, steel residential-type exhaust silencer with rain cap.

Fuel Filtration: Standard and secondary water separator with visible level on fuel filters.

Controls: Digital control panel with manual and automatic start and stop features. Many programmable automatic functions for local and remote controls with LED lights and tamper proof engine hour recorder.

Certification: Generator set is UL 2200 Listed and CSA certified and meets ISO 8528-5.

Codes and Standards Compliances used where applicable





HDI250F - 250Kw Heavy Duty Industrial



APPLICATION DATA

ManufacturerFPT - IvecoOil pan capacity - gal (L)6 (23)ModelC87TE1DOil pan capacity with filter - gal (L)7.4 (28)EPA certifiedTier 3Ol coolerLiquidCrankshaft speed1,800 rpmRecommended lubricating oil gradeSAE 10W-30 / ACEA E3/ (refer to owners manualTypeDiesel, 4-strokeOil consumption at full load< 0.1% of fuel consumptionInjectionDirectOil pressure - psi (kPA)72.6 (500)	
EPA certified Tier 3 Ol cooler Liquid Crankshaft speed 1,800 rpm Recommended lubricating oil grade SAE 10W-30 / ACEA E3/ (refer to owners manual Type Diesel, 4-stroke Oil consumption at full load < 0.1% of fuel consumption	
Crankshaft speed1,800 rpmRecommended lubricating oil gradeSAE 10W-30 / ACEA E3/ (refer to owners manualTypeDiesel, 4-strokeOil consumption at full load< 0.1% of fuel consumption	
Crankshaft speed Recommended lubricating oil grade (refer to owners manual Type Diesel, 4-stroke Oil consumption at full load < 0.1% of fuel consumption	
Injection Direct Oil pressure – psi (kPA) 72.6 (500)	tion
Aspiration Turbocharged aftercooled air/air ENGINE ELECTRICAL SYSTEM	
Number of Cylinders 6 Starting motor voltage 24 volt	
Cylinder arrangement In-line Cold Cranking Amps - minimum 650 Amp	
Displacement CID (liters) 530.8 (8.7) Battery charging Alternantor 90 Amp	
Bore and Stroke ins (mm)4.6 x 5.3 (117 x 135)Battery capacity650CCA 850CA 115RC GROUP SIZE 24F	
Nominal power 375 hp	
Cooling Liquid	
Governor Electronic	
Governor Regulation Class ISO 8528 Part 1 Class G3	
Frequency Regulation Isochronous	
Starting motor & alternator 24 Volt	
Compression ratio 16.5:1	
Air cleaner type Heavy duty - single cartridge	
ALTERNATOR SPECIFICATION	
Manufacturer STAMFORD	
Model 120/240V Single phase N/A	
Model 120/208V Three phase S4L1D-D	
Model 277/480V Three phase S4L1D-C	
Model 347/600V Three phase S4L1S-C	
Alternator Type Four pole, rotating field	
Excitation System Brushless	
Power factor 0.8	
Number of leads 12 leads, reconnectable	
Stator Pitch 2/3	
Insulation Class H	
Windings – Temperature RiseClass F (125/40° C)	
Enclosure (IEC-34-S) IP23	
Bearing Single, sealed	
Coupling Flexible disc	
Amortisseur windings Full	
Voltage regulation – no load to full load with ± 1% MX341 AVR	
TIF <50	
Radio Frequency Emissions compliance Meets requirements of most industrial and commercial applications	
Line harmonics 5% maximum	

HDI250F - <mark>250K</mark>w

Heavy Duty Industrial

STANDARD FEATURES



Enclosure (If selected)	Engine System	Fuel System
Rust-Proof Fastener with Nylon Washers Protect Finish	Oil Drain Extension	Primary Fuel Filter
High Performance Sound-Absorbing Material (L1)	Air Cleaner	Flexible fuel lines
Gasketed Doors	Fan Guard	Generator set
Air Discharge Hoods for Radiators- Upwards Pointing	Factory Filled Oil	80% Rated Main Line Circuit Breaker
Lift Off Door Hinges	Battery Charging Alternator	Separation of Circuits – Multiple Breakers (load center)
Stainless Steel Lockable Handles	Alternator Systems	Separation of Circuits – High / Low Voltage
Textured Polyester Powder Coat	12 Leads (3-Phase, Non 600V)	Internal Genset Vibration Isolation
Cooling System	Class H Insulation Material	Wrapped Exhaust Piping
Factory-Installed Radiator	Vented Rotor	Standard Factory Testing
Radiator Drain Extension	2/3 Pitch	2 Year/2000 hours Limited Warranty
50/50 Ethylene Glycol Antifreeze	Full Load Capacity Alternator	Silencer Mounted in the Discharged Hood (Enclosed Only)
Electrical Systems	Protective Thermal Switch	Emergency Stop
Battery Cables and Battery Tray	Permanent Magnet Excitation	
Batteries	Skewed Stator	

CONTROL SYSTEM



- Charge alternator failure alarm
- 4-Line back-lit LCD text display
- Front panel editing with PIN protection
- Customizable status screens
- Power save mode
- 11 configurable inputs
- 8 configurable outputs
- Flexible sensor inputs
- Configurable timers and alarms
- 3 configurable maintenance alarms
- Multiple date and time scheduler
- Configurable event log (250)

- "Protections disabled" feature
- kW protection
- Reverse power (kW) protection
- LED and LCD alarm indication
- Power monitoring (kWh, kVAr, kVAh, kVArh)
- Load switching (load shedding and dummy load outputs)
- Independent Earth Fault trip
- Fuel usage monitor and low fuel alarms
- Configurable display languages
- User selectable simultaneous RS232, RS485 & Ethernet communications
- MODBUS RTU & TCP support

- Configurable MODBUS pages
- Fully configurable via DSE
- Configuration Suite PC software
- Data logging to assist with fault

finding

- PLC editor allows user configurable
- funcions to meet specific application

requirements

- Licence-free PC software
- Multiple date and time scheduler
- DSENet® expansion compatible

DSE2130 DSE2131 DSE2133 DSE2152 DSE2152 DSE2157 DSE2548	232 485		∲]"	\otimes	¢ſ∙	4	<u>i</u>			
DSENET EXPANSION	RS232 AND RS485		ISB CONFIG	URABLE DO	OUTPUTS	ANALOGUE SENDERS	EMERGENCY STOP	DC POWER SUPPLY 8-35V			
		·***	THERNET F	`~ ,	<u>t</u>	÷	Ŧ				
DSE7410/20 BUT7 ∑ ↔ C € C € C € C € C € C € C € C € C € C											
MAINS (UTILITY) SE BUS SENSING (DSE	NSING (DSE7420) 7410)	N/C VOLT FREE OUTPUT	N/O VOLT FREE OUTPUT	GENERATOR S	Ensing	CHARGE	FUEL & CRANK OUTPUTS FLEXIBLE WITH CAN	ELECTRONIC ENGINES & MAGNETIC PICK-UP			
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Heavy Duty Industrial

CONFIGURABLE OPTIONS



ENCLOSURE	ENGINE SYSTEM	ELECTRICAL SYSTEM				
Open Skid	Oil heater	Battery Warmer				
Weather Enclosure 120V-1ph Water Jacket Heater (with Isolation Valves)		10A Battery Charger				
Level 1 Sound attenuated 208V-3ph Water Jacket Heater (with Isolatic Valves)		6A Battery Charger				
Level 2 Sound attenuated	CIRCUIT BREAKER OPTIONS	10 Positions Load Center (100Amps)				
ALTERNATOR SYSTEM	LSI Electronic trip 80% and 100% rated	Remote ESTOP with N3R break glass				
Anti-condensation heater	LSIG Electronic trip 80% and 100% rated	120V GFCI receptacle				
Alternator upsizing	Second Main Line Circuit Breaker	10A Relay common alarm				
Rheostat	Mechanical Lugs	10A Run Relay				
MX321 AVR	Shunt trip	8 Leds Remote Anounciator on Surface mounted Bo				
	Auxiliary Contacts for Mail and Secondary Breaker	16 Leds Remote Anounciator on Surface mounted Box				

24 Leds Remote Anounciator on Surfacee mounted Box

GENERATOR SET

Extended Factory Load Testing Extended Warranty

Seismic Mounts

ENGINEERED OPTIONS

ENCLOSURE	ENGINE SYSTEM	ELECTRICAL SYSTEM
Snow Hood (only with L2)	Fluid Containment Pan	AC/DC Enclosure Lighting Kit with Timer
Air Outlet Gravity dampers		Enclosure Heater
Air Inlet motorized dampers (only with L2)		240V Twist lock receptacle
CIRCUIT BREAKER OPTIONS	CONTROL SYSTEM	GEENRATOR SET
3rd Breaker system	Spare inputs (x4) / output (x4)	Special Testing
Shunt Trip on 3rd Breaker	DSE8610 - Parallel controller with motorized CB	ALTERNATOR SYSTEM
Auxiliary contact on 3rd Breaker	DSE2130 - DSENet Input Expansion Module	Tropical coating
FUELTANK	DSE2157 - DSENet Output Expansion Module	
Custom Size – 72hr and 96hr	DSE855 - DSENet USB to Ethernet ModBusTCP/ IP Communication Module	
Custom type to meet State spec.	DSE892 - DSENet USB to Ethernet ModBusTCP/ IP - SNMP Comm. Module	
	DSE2520 - Remote Display Module	_

HDI250F - 250Kw

Heavy Duty Industrial

OPERATING DATA

FUEL SYSTEM	
Recommended fuel	# 2 - ULSD - EN590
Fuel supply line, min. ID mm(in.)	9.5 - (3/8")
Fuel return line,min. ID, mm (in.)	9.5 - (3/8")
Max. lift, fuel pump, type, m (ft)	1 (3)
Fuel filter	Secondary 5 Microns @ 98% Efficiency

FUEL CONSUMPTION		(Standby Power Rating)
100% load	Gal/h (L/hr)	18.5 (70)
75% load	Gal/h (L/hr)	13.8 (52.2)
50% load	Gal/h (L/hr)	9.3 (35.2)
25% load	Gal/h (L/hr)	4.6 (17.4)

COOLING SYSTEM		
Engine cooling air flow	cfm (m³/min)	13,772 (390)
Alternator cooling flow	cfm (m³/min)	1,463 (41.4)
Combustion air flow	cfm (m³/min)	830 (23.5)
Total cooling air flow (engine+alternator+combustion)	cfm (m³/min)	16,065 (455)
Total cooling capacity	US gal (liters)	12.6 (48)
Max. Operating Temperature	°F (°C)	122 (50)

EXHAUST		
Exhaust gas flow	cfm (m³/min)	863 (22.7)
Max. Exhaust temp at full load degrees	°F (°C)	1040 (560)
Max. permissible back pressure	in H2O (kPA)	40 (10)

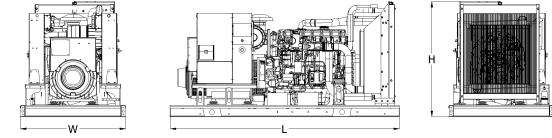
Starting Capabilities (sKVA)

	120/240V (1PH)					277/480V				208/240V				347/600V						
	10%	15%	20%	25%	30%	10%	15%	20%	25%	30%	10%	15%	20%	25%	30%	10%	15%	20%	25%	30%
Standard	n/a	n/a	n/a	n/a	n/a	195	330	450	580	750	195	300	430	550	750	180	280	400	540	700
Upsized	n/a	n/a	n/a	n/a	n/a	250	400	580	780	960	230	350	500	650	850	195	300	430	580	730

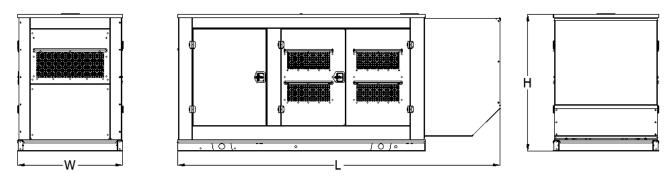
Circuit Breaker

	120/240V (1PH)	277/480V	120/208V	120/240V	347/600V
Make and model	n/a	ABB T5N400TW	ABB T7SB1DB000000XX	ABB T6N800TW	ABB T5N300TW
Amps	n/a	400 A	1000 A	800 A	300 A

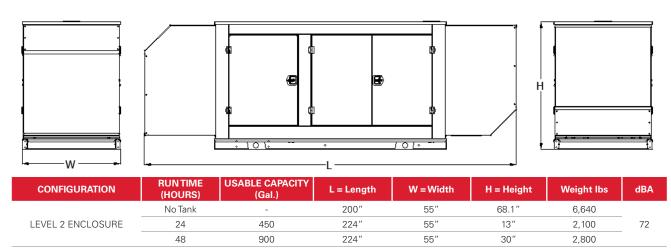




CONFIGURATION	RUN TIME (HOURS)	USABLE CAPACITY (Gal.)	L = Length	W = Width	H = Height	Weight Ibs	dBA
	No Tank	-	120″	55″	66″	4,730	
OPEN SET	24	450	184″	55″	13″	2,100	N/A
	48	900	184″	55″	30″	2,800	



CONFIGURATION	RUN TIME (HOURS)	USABLE CAPACITY (Gal.)	L = Length	W = Width	H = Height	Weight Ibs	dBA
	No Tank	-	160″	55″	68.1″	6,510 / 6,540	77 / 74
WEATHER ENCLOSURE / LEVEL 1 ENCLOSURE	24	450	184″	55″	13″	2,100	
	48	900	184″	55″	30″	2,800	



* All measurements are approximate and for estimation purposes only. Weights are without fuel tank. Sound levels measured at 23ft (7m) and does not account for ambient site conditions.



Intertek Conforms to UL STD 2200 Certified to CSA STD C22.2#100 Certified to CSA STD C22.2#14