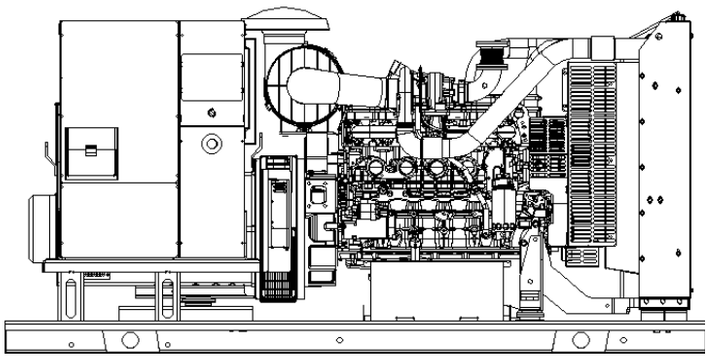
HIPOWER®
A YANMAR COMPANY

Heavy Duty Industrial | HDI
STANDBY DIESEL GENERATOR

MODEL
HDI-200F

60Hz | STANDBY POWER

200kW | 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	200	200	200	200
KVA	N/A	250	250	250	250
AMPS	N/A	694	602	301	241

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

FPT ENGINE: 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 1400-hr 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: Our Generators are ANSI/CAN/UL/ULC STD 2200:220Ed.3+R05Sep2025 certified and meets ISO 8528-5.

HIMOINSA POWER SYSTEMS, INC.
16600 S. Theden Street, Olathe, KS 66062
Toll Free: 866-710-2988 | **HIPOWERSYSTEMS.COM**

Codes and Standards Compliances used where applicable

WORLDWIDE POWER PRODUCTS

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APPLICATION DATA

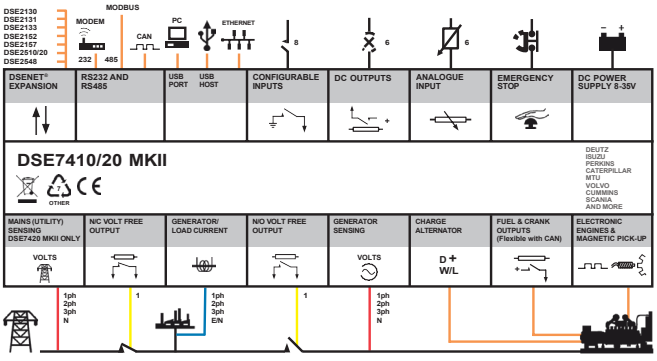
ENGINE SPECIFICATION		LUBRICATION SYSTEM	
Manufacturer	FPT - Iveco	Oil pan capacity - gal (L)	6 (23)
Model	C87TE3F	Oil pan capacity with filter - gal (L)	7.4 (28)
EPA Certified	Tier 3	Oil cooler	Liquid
Crankshaft Speed	1,800 rpm	Recommended lubricating oil grade	SAE 10W-30 / ACEA E3/E5 (refer to owners manual)
Type	Diesel, 4-stroke	Oil consumption at full load	< 0.1% of fuel consumption
Injection	Direct	Oil pressure – psi (kPA)	72.6 (500)
Aspiration	Turbocharged aftercooled air/air	**ENGINE ELECTRICAL SYSTEM**	
Number of Cylinders	6	Starting motor voltage	12 volt
Cylinder Arrangement	In-line	Cold Cranking Amps - minimum	650 Amp
Displacement CID (liters)	530.8 (8.7)	Battery charging Alternator	90 Amp
Bore & Stroke Ins (mm)	4.6 x 5.3 (117 x 135)	Battery capacity	650CCA 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	UCDI274J		
Model 277/480V Three phase	UCI274H		
Model 347/600V Three phase	UCI274H		
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 Rise	Class H (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 MX341 AVR	± 1%		
TIF	<50		
Radio Frequency Emissions Compliance	Meets requirements of most industrial and commercial applications		
Line Harmonics	5% maximum		

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	Separation of Circuits – Multiple Breakers (load center)
Lift Off Door Hinges	Battery Charging Alternator	Separation of Circuits – High / Low Voltage
Stainless Steel Lockable Handles	**ALTERNATOR SYSTEMS**	Internal Genset Vibration Isolation
Textured Polyester Powder Coat	12 Leads (3-Phase, Non 600V)	Wrapped Exhaust Piping
COOLING SYSTEM	Class H Insulation Material	Standard Factory Testing
Factory-Installed Radiator	Vented Rotor	2 Year/2000 Hours Limited Warranty
Radiator Drain Extension	2/3 Pitch	Emergency Stop
50/50 Ethylene Glycol Antifreeze	Full Load Capacity Alternator	Silencer Mounted in the Discharged Hood (Enclosed Only)
ELECTRICAL SYSTEMS	Protective Thermal Switch	
Battery Cables and Battery Tray	Skewed Stator	
Batteries		

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)
- Configurable MODBUS pages
- Fully configurable via DSE Configuration Suite PC Software
- Data logging to assist with fault finding
- "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
- License-free PC software
- Multiple date and time scheduler
- DSENet® expansion compatible
- PLC editor allows user configurable functions to meet specific applications requirements.



CONFIGURABLE OPTIONS

ENCLOSURE	ENGINE SYSTEM	ELECTRICAL SYSTEM
Open Skid	Oil Heater	Battery Warmer
Level 1 Sound Attenuation	120V-1ph Water Jacket Heater (with Isolation Valves)	10A Battery Charger
Level 2 Sound Attenuation	208V-3ph Water Jacket Heater (with Isolation Valves)	6A Battery Charger
Level 1 Sound Attenuation (Aluminum Enclosure)	**CIRCUIT BREAKER OPTIONS**	10 Positions Load Center (100Amps)
Level 2 Sound Attenuation (Aluminum Enclosure)	Auxiliary Contacts for Main & Secondary Breaker	Remote ESTOP with N3R break glass
ALTERNATOR SYSTEM	Thermal-Magnetic Trip 80% & 100% Rated	120V GFCI Receptacle
Anti-Condensation Heater	LS/I Electronic Trip 80% and 100% Rated	10A Relay Common Alarm
Alternator Up-Sizing	LSI Electronic Trip 80% and 100% Rated	10A Run Relay
Rheostat	LSIG Electronic Trip 80% and 100% Rated	8 LED Remote Annunciator on Surface Mounted Box
MX321 AVR	Second Main Line Circuit Breaker	16 LED Remote Annunciator on Surface Mounted Box
CERTIFICATIONS	Mechanical Lugs	24 LED Remote Annunciator on Surface Mounted Box
IBC Certification	Shunt Trip	**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	**CONTROL SYSTEM**	Enclosure Heater
Air Inlet Motorized Dampers (Only with L2)	Spare inputs (x4) / output (x4)	240V Twist Lock Receptacle
CIRCUIT BREAKER OPTIONS	DSE2130 - DSENet Input Expansion Module	**GENERATOR SET**
3rd Breaker System	DSE2157 - DSENet Output Expansion Module	Special Testing
Shunt Trip on 3rd Breaker	DSE855 - DSENet USB to Ethernet ModBus TCP/IP Communication Module	**ALTERNATOR SYSTEM**
Auxiliary Contact on 3rd Breaker	DSE892 - DSENet USB to Ethernet ModBus TCP/IP - SNMP Comm. Module	Tropical Coating
FUEL TANK	DSE2520 - Remote Display Module	
Custom Size – 72hr and 96hr		
Custom Type to Meet State Spec.		
Vent Extensions		
Overfill Protection Valve		

OPERATING DATA

FUEL SYSTEM		
Recommended Fuel	# 2 - ULSD	
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	US Gal/hr (L/hr)	15.7 (59.4)
75% Load	US Gal/hr (L/hr)	12 (45.4)
50% Load	US Gal/hr (L/hr)	8.3 (31.4)
25% Load	US Gal/hr (L/hr)	4.2 (15.9)
COOLING SYSTEM		
Engine Cooling Air Flow	cfm (m^3/min)	13,772 (390)
Alternator Cooling Flow	cfm (m^3/min)	1,463 (41.4)
Combustion Air Flow	cfm (m^3/min)	830 (23.5)
Total Cooling Air Flow (Engine + Alternator + Combustion)	cfm (m^3/min)	16,065 (455)
Total Cooling Capacity	US gallons (liters)	12.6 (48)
Max. Operating Temperature	°F (°C)	122 (50)
EXHAUST		
Exhaust Gas Flow	cfm (m^3/min)	863 (22.7)
Max. Exhaust Temp at Full Load Degrees	°F (°C)	1040 (560)
Max. Permissible Back Pressure	in H2O (kPA)	40 (10)

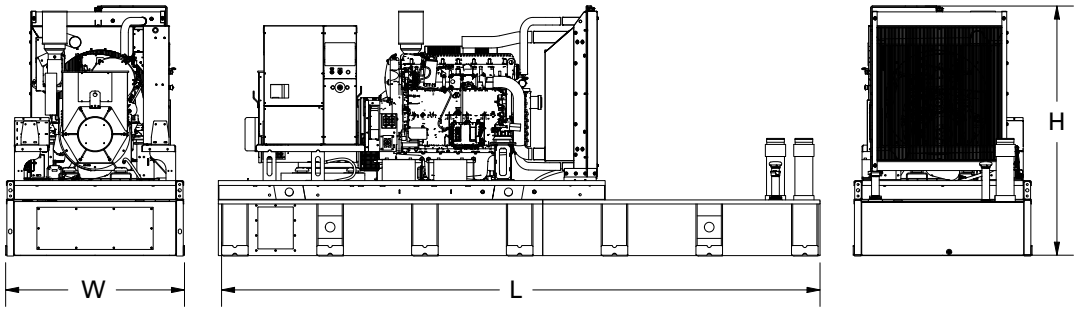
STARTING CAPABILITIES (sKVA)

	120/240V (1PH)					277/480V					208/240V					347/600V				
ALTERNATOR	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	190	300	420	560	715	130	210	295	390	510	180	280	390	520	680
UP-SIZED	N/A	N/A	N/A	N/A	N/A	180	280	400	530	680	150	230	330	460	560	220	360	510	680	870

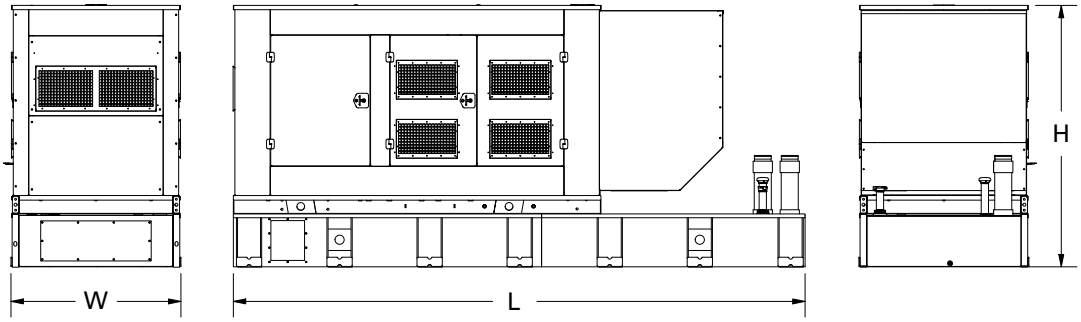
CIRCUIT BREAKER

	120/240V (1PH)	277/480V	120/208V	120/240V	347/600V
MAKE & MODEL	N/A	ABB XT5NU330ABFF000XXX	ABB XT6NU3800BFF000XXX	ABB XT6NU3800BFF000XXX	ABB XT4NU3250AFF000XXX
AMPS	N/A	300 A	800 A	800 A	250 A

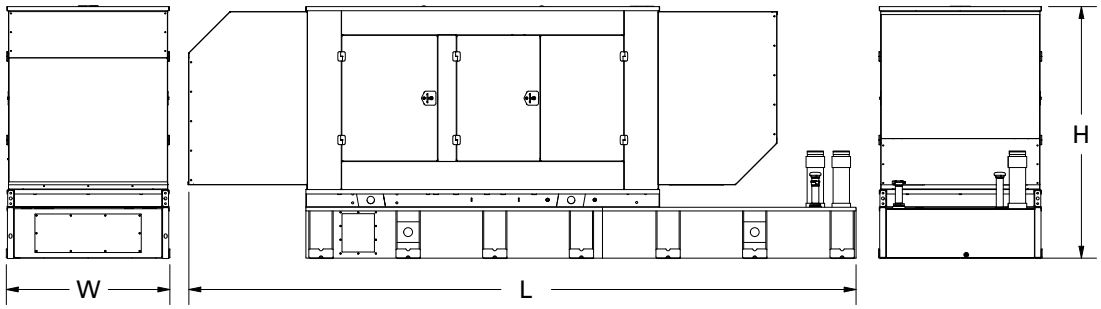
DIMENSIONS, WEIGHTS & SOUND LEVELS



CONFIGURATION	RUN TIME (HOURS)	USABLE CAPACITY (Gal.)	L = Length	W = Width	H = Height	Weight lbs	dBA
OPEN SET	No Tank	-	120″	55″	66″	4,530	N/A
	29	471	187″	55.5″	17.4″	6,630	
	59	935	187″	55.5″	31″	7,430	



CONFIGURATION	RUN TIME (HOURS)	USABLE CAPACITY (Gal.)	L = Length	W = Width	H = Height	Weight lbs	dBA
LEVEL 1 ENCLOSURE	No Tank	-	160″	55″	68.1″	6,540	74
	29	471	187″	55.5″	85.5″	8,640	
	59	935	187″	55.5″	99.1″	9,440	



CONFIGURATION	RUN TIME (HOURS)	USABLE CAPACITY (Gal.)	L = Length	W = Width	H = Height	Weight lbs	dBA
LEVEL 2 ENCLOSURE	No Tank	-	200″	55″	68.1″	6,640	72
	29	471	227″	55.5″	85.5″	8,740	
	59	935	227″	55.5″	99.1″	9,540	

* 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.

** Pictures above are for visual representation only, may not represent options or bill of material supplied.

REV 06-2026

Intertek
4008009
Certified to ANSI/CAN/UL/ULC STD 2200:220Ed.3+R05Sep2025