

Model: HMW 915 T6U

Standby

kVA

N/A

1125

1125

1125

1125

kW

N/A

900

900

900

900

Prime

kVA

N/A

1012

1012

1012

1012

kW

N/A

810

810

810

810

MTU Detroit Diesel Series Specification & Application Data

60Hz Power Ratings kW (kVA)

Phase

1

3

3

3

3

capability. Alternator winding temperature rise is 120°C.

overload capacity is available for 1 out of every 12 hours.

PF

N/A

0.8

0.8

0.8

0.8

Standby - All Industrial Sets are Standby Rated, applicable for a varying emergency load for the duration of a utility power outage with no overload

Prime - Prime rating is applicable for supplying power to a varying load in lieu of utility for an unlimited amount of running time. (Max. load factor = 80%) A 10%

** 600 Volt configuration not available as UL2200 certified generator set.

Rating Definitions: (N/A = Not available for model designated)

* Prime power rating for reference only.

Voltage VAC

120/240

120/208

120/240 Delta

277/480

347/600**

Generator depicted with sound attenuated option, some accessories for display only.

Overview of the HIPOWER® MTU Detroit Diesel Series of Industrial Generator Sets:

HIPOWER[®] Industrial generators are factory-built in facilities that utilize the latest technology in sheet metal fabrication, mechanical and electrical component assembly, production and testing.

Each model is the result of computer aided design and modeling backed up by exhaustive prototype-testing. Our development technology results in a unique range of inovative designs for highly reliable generator sets backed-up by a limited warranty covering all components.

Standard Configuration of Industrial Sets:

- MTU Detroit Diesel Engine: Long-life, heavy-duty, 4-cycle, direct injection engine from a world renown manufacturer for economy of operation and maximum reliability and durability. Capable of full rated load acceptance in one step.
- Cooling: Radiator with belt driven pusher fan.
- Filtration: Heavy duty replaceable element air-cleaner
- Alternator: Single bearing, 4-pole, rotating field, self-excited, self-ventilated, 12-wire re-connectable, 60Hz brushless alternator with Class H insulation. Automatic voltage regulator (AVR) providing close voltage regulation.
- certified and meets ISO 8528-5.

Certi ication: Generator set is UL 2200 Listed and CSA

- Arrangement: Open skid with engine and alternator units closed coupled together and with resilent anti-vibration isolators mounted between the assembly and a heavy-duty steel base. The sturdy base frame has openings allowing for winching, slinging and forklift pockets for ease of handling
- Auto Start Control Panel: Digital auto-start microprocessor based control panel with remote start capability.
- **Starting System:** 24 volt starter motor, battery cables, battery and belt driven charging alternator.

Standard Features of Industrial Sets:

- HIPOWER[®] is a single source for all the generator system
- Generators are produced in a facility dedicated to generator set manufacture
- The generator set can accept rated load in one step
- 2 years or 1000 hours limited warranty given as standard. Extended warranties offered as options to the standard
- Base set meets NFPA 110, Level 1, when accessorized with the required equipment and installed per NFPA standards
- Test certificates available for the fully factory tested industrial generator sets

- HIPOWER[®] generator sets are designed to fit a full range of options for complying with many diverse applications
- Full range of safety features to ensure full protection of the generator system. (See back-page for details).





Application & Specification Data

Industrial Generator Set Specification:

INDUSTRIAL Diesel Generator Model: HMW 915 T6U MTU Detroit Diesel Series

Governor regulation class	ISO 8528 Part 1 Class G3		
Voltage regulation, no load to full load	+/- 1%		
Frequency regulation	Isochronous		
Radio frequency emissions compliance	Meets requirements of most industrial and commercial applications		
skVA@30% voltage dip (480 volts)	3600		
Main Line Circuit breaker – amps capacity	3200A (208V-240V) - 1600A (480V - 600V)		
Engine Specification:			
Manufacturer	MTU Detroit Diesel		
Model	16V 2000 G45		
EPA certified	Tier 2		
Crankshaft speed	1,800 rpm		
Туре	Diesel, 4-stroke		
Injection	Direct		
Aspiration	Turbocharged, aftercooled		
Number of cylinders	16		
Cylinder arrangement	Vee		
Displacement CID (liters)	1943 (31.84)		
Bore and Stroke ins (mm)	5.125 x 5.906 (130 x150)		
Nominal h.p. power	1168 hp		
Cooling	Liquid		
Governor	Electrical		
Starting motor and alternator	24 V		
Compression ratio	16.0:1		
Air cleaner type	Medium duty - double cartridge		
Exhaust gas flow cu. ft/min (cu. m/min)	6780.4 (192)		
Max. exhaust gas temp at full load ° F (° C)	1040 (560)		
Max. permissible back pressure - ins H2O (mbar)	34.12 (85.0)		
Cooling System:			
Engine cooling air flow - cu.ft/sec (cu. m/sec)	868.7 (24.6)		
Alternator cooling flow - cu. ft/sec (cu. m/sec)	69.3 (1.961)		
Total cooling air flow (eng, alt, combustion) cu. ft/min (cu. m/min)	63116 (1786)		
Total cooling capacity - US gallons (liters)	54.38 (206)		
Lubrication system:			
Oil pan capacity - US gallons (liters)	26.1 (99)		
Oil pan capacity with filter - US gallons (liters)	26.9 (102)		
Oil cooler	Liquid		
Recommended lubricating oil grade	SAE 10W40		
Oil consumption at full load	1 % of fuel consumption		
Oil pressure – psi (kPA)	79.8 (550)		
Engine Electrical System:			
Starting motor voltage	24 V		
Battery capacity	260 Ah		
Cold Cranking Amps - minimum	1600 Amp		
Starting current Amps	800		

Fuel System:

Recommended fuel	# 2 Diesel - ULSD			
Fuel supply line, min. ID mm(in.)	11.0 (0.44)			
Fuel return line,min. ID, mm (in.)	6.0 (0.25)			
Max. lift, fuel pump, type, m (ft)	Engine-Driven, 1.8 (6.0)			
Fuel filter	Secondary 8 Microns @ 98% Efficiency			
Fuel consumption:	Standby Power Rating	Prime Power Rating		
Fuel consumption: 100% load – US gallons/hour	Standby Power Rating 57.9	Prime Power Rating 52.11		
Fuel consumption: 100% load – US gallons/hour 75% load - US gallons/hour	Standby Power Rating 57.9 44.3	Prime Power Rating 52.11 39.08		
Fuel consumption: 100% load – US gallons/hour 75% load - US gallons/hour 50% load - US gallons/hour	Standby Power Rating 57.9 44.3 30.2	Prime Power Rating 52.11 39.08 29.31		

Alternator Specification:

Manufacturer	Stamford
Model	НСІ 634 К
Voltages	120/208V - 277/480V
Alternator Type	Four pole, rotating field
Excitation System	Brushless. self-exciting
Power factor	0.8
Number of leads	12 leads, reconnectable
Stator Pitch	2/3
Insulation	Class H
Windings – Temperature Rise	150° C
Enclosure (IEC-34-S)	IP23
Bearing	Single, sealed
Coupling	Flexible disc
Amortisseur windings	Full
Voltage regulation – no load to full load	plus or minus 1%
TIF	<50
Line harmonics	5% maximum

Standard Features: (see back-9page for control panel details)

Radiator with pusher fan	Standard fuel filter
Medium - duty, two-stage dry element	All rotating components (i.e. fan) protected with metal guards
Heavy-duty engine start batteries in rack with cables	All hot components (i.e. exhaust) protected with metal guards
• External emergency stop switch	Ground connection prepared for ground spike (not supplied)
Control Panel DSE 7310 (See over for details)	Main line ABB UL listed circuit breaker for overload protection
Oil drain extension	Operation and installation literature
• Steel base for mounting on fuel tank and/or concrete surface	UL/CSA certified

Available Options:

□ Sound attenuated canopy with rock-wool insulation, silencer, rounded corners for rigidity and weather protection & stainless steel fixtures				
□ Electric actuator & louvers for air intake and exhaust (for above)	e) Alternator anti-condensation heaters			
Residential silencer -35dBA (for open skid only)	□ Murphy oil make-up tank 2 or 4 gallon			
Fuel Tank Options:	🗆 24-hr UL142	🗆 48-hr UL142		
□ Static battery charger 2.5A UL	Static battery charger 10A UL			
Engine block heater	Control panel heater			
Racor water-separator filter	Battery blanket			
PMG AVR for Stamford Alternator only	Remote annunicator			
Auto Transfer Switch (ATS) Options:	□ Open transition ATS □ Closed transition ATS		n ATS	
	Delayed transition ATS Service entrance ATS		e ATS	
	·			

Generator Digital Control Panel - for manual, automatic and remote control

Model DSE 7310

HIPOWER DSE 7310 Control Panel: HIPOWER's auto-start control panel DSE 7310 is supplied by Deep Sea Electronics with a manual or auto start selection switch with push button reset. Displays with indication of: phase to neutral voltage, voltage between phases, current (amps) per phase, frequency, power factor, kW and kVA outputs, fuel level, engine speed, hours run, battery voltage and battery charge voltage.

Engine and generator alarms for: battery charge failure, emergency stop activated, over-speed, underspeed, low oil pressure, high coolant temperature, low coolant level, low fuel level, overload, unbalanced voltage, over and under voltage, over frequency, short circuit, inverse power and incorrect phase sequence. All protections are programmable to: Warning alarm without engine shutdown or alarm with engine



Model HMW 915 T6 Enclosed Set

shutdown, with or without cooling period. Warning alarms for: low fuel level, battery voltage failure and battery charging alternator failure

Alternator alarms included: Overload, unbalanced voltage, over voltage, under voltage, over frequency, under frequency, short circuit, reverse power, and incorrect phase sequence.



Pictures of Control Panel RH and Distribution Panel LH may include optional equipment and/or accessories

REAR VIEW LATERAL RIGHT VIEW LATERAL LEFT VIEW ĝ * * * * Н Û TOP VIEW FRONT VIEW Â മ്മ î î î **≁** ⇒ ⇒ Н ₽ **A A A ^ ^ ^** W

Configuration	Fuel Tank Data (base option)		Generator Data *				
	Run Time Hours	Capacity (Gals)	L = Length	W = Width	H = Height	Weight lbs	dBA
Enclosed Set (as diagram)	7.0	264	238.5″	96.0"	102.0"	27,205	81
Open Set (not shown)	ТВА	ТВА	194.9″	63.1"	96.3″	15,048	TBA

* 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. Codes and Standards Compliances used where applicable



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key dimensions and sound levels

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