PowerTech M6.8L

G-Drive NonCertified Diesel engine 200 kVA





Description

PowerTech M6.8L is a premiumheavy-duty Generator Drive Diesel engine aimed at nonemissions regulated markets well as stationary applications in EU.

Available ineither bare or power unit configuration his engine platform covers 150, 180 & 200 kVA primenodes in dual frequency ratings.

Based onsimple, straightforward technology, PowerTech M6.8L is designed andmanufactured in Francefacility certified to ISO 9001.)It also complies withRoHS 2 directive and CE certification.



Dual Frequency Ratings



Designed and manufactured in facility certified to ISO 9001& ISO 140001



Engine meets EU Directive 2011/65/EU



Compatible with John Deere PowerAssist^M app



Performance data

Power node (prime)		150 kVA prime/165 kVA stand-by				180 kVA prime/200 kVA stand-by				200 kVA prime/225 kVA stand-by						
		Engine Gen		drive rating		Engine		Gen drive rating		Engine		Gen drive rating				
Speed	Operation	kW (Gross)	Fan power	Gen eff.	kVA	KWe	kW (Gross)	Fan power	Gen eff.	kVA	KWe	kW (Gross)	Fan power	Gen eff.	kVA	KWe
1500 rpm- 50 Hz	Prime power	139	7.7	92%	151	121	167	9.2	92%	181	145	184	10.1	93%	202	162
	Standby powe	153	7.7	92%	167	134	183	9.1	92%	200	160	202	10.1	93%	223	178
1800 rpm– 60 Hz	Prime power	154	8.5	92%	167	134	191	10.5	92%	208	166	191	10.5	93%	210	168
	Standby powe	169	8.5	92%	185	148	210	10.5	92%	229	184	210	10.5	93%	232	186

Features & Benefits

PERFORMANCE WITHOUT COMPROMISE

Exceptional load acceptance

Unrivaled block loading capbility. Class G2 (ISO 85285). Turbocharging and air to air after cooling povides high power density and fuel efficiency.

Performance in extreme conditions

Superior cold starting, highaltitude capability, twestage fuel filtration with water detection.

Dual frequency ratings

50 Hz/60 Hz switchableFits all regionsof the world.

RoHS 2 compliant

Engine meets EU Directive 2011/65/EU (Restriction of Hazardous Substances).

RELIABLE UPTIME

Day-to-day reliability

PowerTech heavy duty design, oversized components, replaceable (wet) cylinder liners, engine made in France. Injection system compatible with hieshulfur fuel.

Extensive worldwide service network

4000+ service locations worldwide, 1 500+ service locations in Europe, qualified service technicians

Fast delivery of maintenance & replacement parts Worldwide parts distribution system, with overnight delivery in most regions.

John Deere warranty: confidence is built in
Best-in-class coverage Standard warranty 2 years/2000
hours. Extended warranty pa to 5 years/5000 hours

LOW OPERATING & OWNERSHIP COST

Long haul durability

Engine proven by John Deere heavy duty applications

I ong service interval

500-hour maintenance interval (oil & fuel filters)4000-hour coolant drain interval.

Easy maintenance

Self-adjusting polyV belt, washable air filter, replaceable (wet) cylinderliners for easy engine overhalumaintenance free gear timing

Single side service option

All maintenance related options located on righband side (oil filter, oil dipstick, oil filler, oil dran, fuel filter).

EASY INTEGRATION

High power density

New 200 kVA nodeExtends mechanical engine linep from 30 to 200 kVA prime

Single side service option

All maintenance related options located on righband side (oil filter, oil dipstick, oil filter, oil drain, fuel filter)

High flexibility of integration

Wide option & accessories selectiorsame engine model covers 150, 180 & 200 kVA prime nod £actory-mounted power unit available, designed for tropical conditions Includes radiator, front feet, radiator bracket & air fetr.

Ready Spec available

Ready-to-go specification available witheduced6-week lead-time.

General Data

Model (Bare/Power Unit)	6068HFG20 / 6068HFU20
Configuration	6 cylinders, inline
Туре	4-stroke
Displacement	6.8L
Bore and stroke	106 x 127 mm
Compression ratio	17.2 : 1
Rotation	Counterclockwise
Injection type	Mechanical, comp. with e-gov
Aspiration	Turbocharged air to air cooled)
Starter	3,2 kW, 12V
Alternator	75 amp, 12V
Total lubricating capacity	32L
Service	Right hand side
Flywheel housing	SAE 3
Flywheel	11.5"
Cooling system	Water-cooled

Power Unit data

Model (Power Unit)	6068HFU20
Cooling system e sign	Radiator/CAC
Radiator material	Copper
Coolant atio	50% ethylene glycol50% water
Engine colant capacity	11.3L
Radiator coolant capacity	22.9L
Airfilter	Dry type

Fuel consumption (kg/h)

Frequency	Operation	25%	50%	75%	100%
1500 rpm 50 Hz	Prime power	9.9	19.6	29.9	38.0
1500 rpm- 50 Hz	Standby power	10.9	21.7	32.4	41.9
1000 *** 60	Prime power	10.9	20.6	31.5	41.2
1800 rpm- 60 Hz	Standby power	11.8	22.7	34.6	44.2

Optionality (Bare engine only)

		Standard	Optional
General	Voltage	• 12V	O 24V
	Default speed (dual frequency ratings)	• 1500 rpm	O 1800 rpm
	Belt tensioner	Automatic	O Manual
	Crankshaft pulley (damper)	Included	O Not included
	Paint	Industrial tan	O Black, yellow, green, white
	Shipping stand	Skid withfilm	Skid/Skid with plastic bag
Cooling system	Fan pulley	• 184 mm	O 140/154/168/203 mm
	Fan height	• 402 mm	O 290/338 mm
	Fan	Not included	O Blower, 27"/28"/30"/34"
Air system	Air filter	Not included	O Light duty/Medium duty
	Air restriction indicator	 Not included 	 Mounted on air filter
	Crankcase Ventilation system	With vent hose	Without vent hose
Integration	Exhaust adapter	Not included	○ Steel/Cast iron
	Air inlet	Straight	O Elbow
	Coolant pump inlet	 Downward orientation 	Forward orientation
	Coolanttemperature sensor	Not included	 Single/dual contact
	Oil pressure sensor	Not included	 Single/dual contact
Starting aids	Cold start aid	Not included	O Air inlet heater, 110V/220V
	Block heater	Not included	O Coolant heater, 110V/220V

Physical data

Dimensions	Bare	Power Unit
Length	1141 mm	1540 mm
Width	630 mm	990 mm
Height	1009 mm	1390 mm
Weight, dry	569 kg	810 kg

Ratings definitions

Prime power is the nominal power an engine is capable of delivering with a variable load for an unlimited number of hours per year. This rating conforms to ISO 3046 and SAE

Standby power is the nominal engine power available at varying load factors for up to 500 hours per year. This rating conforms to ISO 3046 and SAE J1995. The calculated generator set rating range for standby applications is based on minimum engine power (nominab%) to provide 100% meebr-exceed performance for assembled standby generator sets.





