



JOHN DEERE

PowerTech™ E

5030H Diesel Engine

for Generator Set Applications



5030HF Engine shown

General Data

Model	5030HF285	Aspiration	Air-to-Air
Number of cylinders	5	Length-- mm (in)	799 (31.5)
Displacement-- L (cu in)	3.05 (186)	Width-- mm (in)	566 (22.3)
Bore and Stroke-- mm (in)	86 x 105 (3.39 x 4.13)	Height-- mm (in)	800 (31.5)
Compression Ratio	18.2:1	Weight, dry-- kg (lb)	287 (633)
Engine Type	In-line, 4-Cycle		

Ratings

Prime power at 60 Hz ()	65 kW (87 hp)
Standby power at 60 Hz ()	72 kW (97 hp)

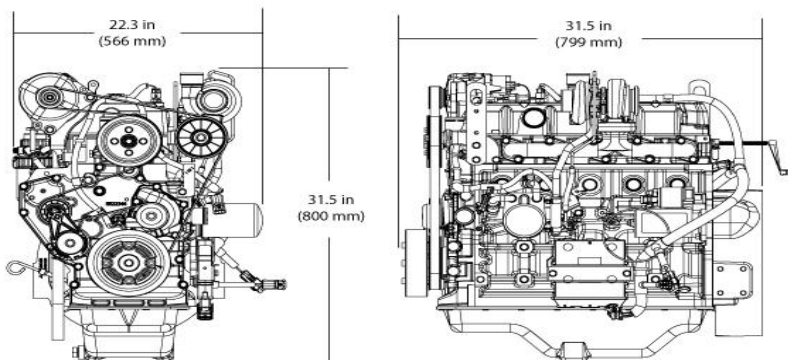
Prime power is the nominal power an engine is capable of delivering with a variable load for an unlimited number of hours per year. This rating conforms to ISO 3046 and SAI J1995.

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 (nominal -5%) to provide 100% meet-or-exceed performance for assembled standby generator sets.

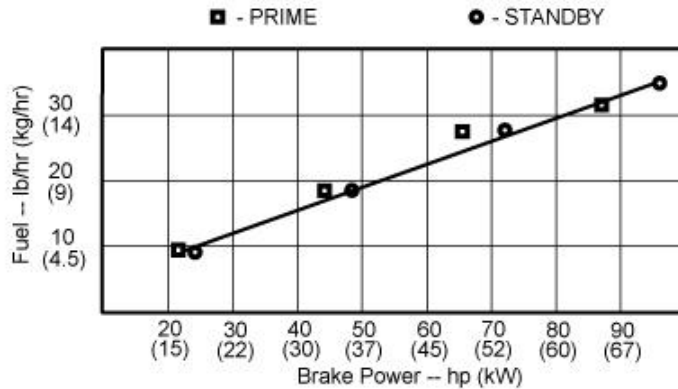
Certifications

- CARB
- EPA Tier 3

Dimensions



Performance curve



Performance data

Hz (rpm)	Generator efficiency %	Fan power		Power factor	Calculated generator set output			
		kW	hp		Prime		Standby	
					kWe	kVa	kWe	kVa
60 ()	88-92	3.6	4.8	0.8	54-56	68-70	60-63	75-79

Features and Benefits

2-Valve Cylinder Head

- Cross-flow head design provides excellent breathing from a lower-cost 2-valve cylinder head

Electronic Unit Pump (EUP) Fuel System

- Regulated rated speed flexibility and improved cold-start and warm-up control

Fixed Geometry Turbocharger

- Fixed geometry turbochargers are precisely matched to the power level and application

Air-to-Air Aftercooled

- This is the most efficient method of cooling intake air to help reduce engine emissions while maintaining low-speed torque, transient response time, and peak torque. It enables an engine to meet emissions regulations with better fuel economy and the lowest installed costs

John Deere Electronic Engine Controls

- Monitors critical engine functions providing warning and/or shutdown to prevent costly engine repairs; eliminates need for add-on governing components; all lowering total installed costs. Snapshot diagnostic data that can be retrieved using commonly available diagnostic service tools
- New common wiring interface connector for vehicles or available OEM instrumentation packages; new solid conduit and "T" connectors to reduce wiring stress, greater durability and improved appearance
- Factory installed engine mounted ECU or remote mounted ECU, wiring harness and associated components
- Industry standard SAE J1939 interface which communicates with other vehicle systems, eliminating redundant sensors and reducing vehicle installed cost

Compact Size

- Mounting points are the same as Tier 2/Stage II engine models

Engine Performance

- Block loading capability provided with standard electronic governor control

Additional Features

- Self-adjusting poly-vee fan drive
- Forged-steel connecting rods
- Either-side service



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