PowerTech M2.9L

G-Drive NonCertified Diesel engine 30 kVA





Description

PowerTech M2.9L is a premiumheavy-duty Generator Drive Diesel engine aimed at nonemissions regulated marketas well as stationary applications in EU.

Available in eithebare or power unit configuration this engine platform covers 30, 40 & 60 kVA primenodes in dual frequency ratings.

Based onsimple, straightforward technology, PowerTech N2.9L is designed andmanufactured in Francefacility certified to ISO 9001.)It also complies with RoHS 2 directive and CE certification.



Frequency Ratings



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



Engine meets EU Directive 2011/65/EU



Compatible with John Deere PowerAssistMapp



Performance data

Power node (prime)		30 kVA prime/35 kVA stand-by				40 kVA prime/45 kVA stand-by				60 kVA prime/65 kVA stand-by						
		Engine		Generator		Engine		Generator		Engine		Generator				
Speed	Operation	kW	Fan power	Gen eff.	kVA	KWe	kW	Fan power	Gen eff.	kVA	KWe	kW	Fan power	Gen eff.	kVA	KWe
1500 rpm- 50 Hz	Prime power	28	1.6	90%	30	24	38	2.1	90%	41	33	56	3.1	90%	59	47
	Standby powe	31	1.6	90%	33	27	42	2.1	90%	45	36	61	3.1	90%	65	52
1800 rpm- 60 Hz	Prime power	33	1.8	90%	35	28	44	2.4	90%	46	37	66	3.6	90%	70	56
	Standby powe	36	1.8	90%	38	31	48	2.4	90%	51	41	72	3.6	90%	77	62

Features & Benefits

PERFORMANCE WITHOUT COMPROMISE

- Exceptional load acceptance
 - Unrivaled blockoading capability. 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 capabilitytwo-stage 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 dutglesign, oversized components, replaceable (wet) cylinder liners, engine made in France. Injection system compatible with highlfur fuel.
- Extensive worldwide service network 4000+ service locations worldwide, 1 500+ service locations
- Fast delivery of maintenance & replacement parts Worldwide parts distribution system, with overnight delivery in most regions.

in Europe, qualified service technicians

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

LOW OPERATING & OWNERSHIP COST

- Long haul durability
 - Enginedesignproven by John Deere heavy duty applications
- Long service interval
 - 500-hour maintenance interval (oil & fuel filters)4000hour coolant drain interval.
- Easy maintenance
 - Washable air filter, replaceable (wet) cylinder linefor easy engine overhalumaintenancefree gear timing
- Single side service option
- All maintenancerelated options located on rightand side (oil filter, oil dipstick, oil filler, oil drain, fuel filter)

EASY INTEGRATION

- High power density
 - Same platform covers 30, 40 & 60 kVA nodes. 60 kVA downsized from 4 to 3cylinder platform
- Single side service option
 - All maintenancerelated options located on righband side (oil filter, oil dipstick, oil filler, oil drain, fuel filter)
- High flexibility of integration
 - Wide option & accessories selectior. actory-mounted power unit available, designed for tropical conditions Includes radiator, front feet, radiator bracket & air filter.
- Ready Spec available
 - Ready-to-go specification available with reduced 6-week lead-time.

General Data

Model (Bare/Power Unit)	3029DFG20 / 3029DFU20
Configuration	3 cylinders, inline
Туре	4-stroke
Displacement	2.9L
Bore and stroke	106 x 110 mm
Compression ratio	17.2:1
Rotation	Counterclockwise
Injection type	Mechanical, comp. with egov
Aspiration	Naturally aspirated
Starter	3.2 kW, 12V
Alternator	65 Amp, 12V
Total lubricating capacity	6L
Service	Right hand side
Flywheel housing	SAE4
Flywheel	10"
Cooling system	Water-cooled

Power Unit data

Model (Power Unit)	3029DFU20
Cooling system e sign	Radiator
Radiator material	Copper
Coolant atio	50% ethylene glycol50% water
Engine colant capacity	5.7L
Radiator coolant capacity	7.6L
Airfilter	Dry type

Fuel consumption (kg/h)

Frequency Operation		25%	50%	75%	100%
1500 rpm 50 Hz	Prime power	2.1	3.4	4.7	6.4
1500 rpm- 50 Hz	Standby power	2.3	3.7	5.2	7.3
1000 *** 6011-	Prime power	2.4	3.8	5.6	7.4
1800 rpm- 60 Hz	Standbypower	2.6	4.2	6.1	8.3

Optionality (Bare engine only)

		Standard	Optional
General	Voltage	• 12V	O 24V
	Default speed (dual frequency ratings)	• 1500 rpm	○ 1800 rpm
	Flywheel housing	• SAE4	O SAE 3
	Flywheel	• 10"	O 11.5"
	Paint	Industrial tan	O Black, yellow, greenwhite
	Shipping stand	 Skid withplastic cover 	O Skid
Cooling system	Fan	 Not included 	O Blower, 18"
	Crankshaft pulley	• 170 mm	O 140 MM
Air system	Air filter	 Not included 	O Light duty/Medium duty
	Air restriction indicator	Not included	O Mounted on air filte/rair inlet
Integration	Exhaust adapter	 Not included 	O Included
	Coolant temperature sensor	Not included	O Single/dual contact
	Oil pressure sensor	 Not included 	 Single/dual contact
Starting aids	Cold start aid	Not included	O Glow plug

Physical data

Dimensions	Bare	Power Unit
Length	716 mm	890 mm
Width	519 mm	620 mm
Height	819 mm	940 mm
Weight, dry	316 kg	410 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 (nomina5%) to provide 100% meetr-exceed performance for assembled standby generator sets.



