

# PowerTech M 2.9L

G-Drive Non-Certified Diesel engine **40 kVA**



## Description

PowerTech M 2.9L is a premium heavy-duty Generator Drive Diesel engine aimed at non-emissions regulated markets, as well as stationary applications in EU.

Available in either bare or power unit configuration, this engine platform covers 30, 40 & 60 kVA prime nodes in dual frequency ratings.

Based on simple, straight-forward technology, PowerTech M 2.9L is designed and manufactured in France (facility certified to ISO 9001). It also complies with RoHS 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™ app



## 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				
Speed	Operation	Engine		Generator			Engine		Generator			Engine		Generator		
		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 power	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 power	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 block loading capability. Class G2 (ISO 8528-5). Turbocharging and air to air after cooling provides high power density and fuel efficiency.
- **Performance in extreme conditions**  
Superior cold starting, high-altitude capability, two-stage fuel filtration with water detection.
- **Dual frequency ratings**  
50 Hz/60 Hz switchable. Fits all regions of 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 high-sulfur 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 up to 5 years/5000 hours.

### LOW OPERATING & OWNERSHIP COST

- **Long haul durability**  
Engine design proven by John Deere heavy duty applications.
- **Long service interval**  
500-hour maintenance interval (oil & fuel filters). 4000-hour coolant drain interval.
- **Easy maintenance**  
Washable air filter, replaceable (wet) cylinder liners for easy engine overhaul, maintenance-free gear timing.
- **Single side service option**  
All maintenance-related options located on right-hand 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 3-cylinder platform.
- **Single side service option**  
All maintenance-related options located on right-hand side (oil filter, oil dipstick, oil filler, oil drain, fuel filter).
- **High flexibility of integration**  
Wide option & accessories selection. Factory-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)	3029TFG20 / 3029TFU20
Configuration	3 cylinders, in-line
Type	4-stroke
Displacement	2.9L
Bore and stroke	106 x 110 mm
Compression ratio	17.2:1
Rotation	Counterclockwise
Injection type	Mechanical, comp. with e-gov
Aspiration	Turbocharged
Starter	3.2 kW, 12V
Alternator	65 amp, 12V
Total lubricating capacity	8L
Service	Right hand side
Flywheel housing	SAE 4
Flywheel	10"
Cooling system	Water-cooled

## Power Unit data

Model (Power Unit)	3029TFU20
Cooling system design	Radiator
Radiator material	Copper
Coolant ratio	50% ethylene glycol - 50% water
Engine coolant capacity	5.7L
Radiator coolant capacity	7.6L
Air filter	Dry type

## Fuel consumption (kg/h)

Frequency	Operation	25%	50%	75%	100%
1500 rpm – 50 Hz	Prime power	2.6	4.5	6.5	8.5
	Standby power	2.9	4.9	7.2	9.2
1800 rpm – 60 Hz	Prime power	3.3	5.4	7.8	9.9
	Standby power	3.5	5.8	8.5	10.7

## Optionality (Bare engine only)

		Standard	Optional
<b>General</b>	Voltage	● 12V	○ 24V
	Default speed (dual frequency ratings)	● 1500 rpm	○ 1800 rpm
	Flywheel housing	● SAE 4	○ SAE 3
	Flywheel	● 10"	○ 11.5"
	Paint	● Industrial tan	○ Black, yellow, green, white
	Shipping stand	● Skid with plastic cover	○ Skid
<b>Cooling system</b>	Fan	● Not included	○ Blower, 18"
	Crankshaft pulley	● 177.5 mm	○ 140 mm
<b>Air system</b>	Air filter	● Not included	○ Light duty/Medium duty
	Air restriction indicator	● Not included	○ Mounted on air filter
<b>Integration</b>	Turbocharger	● High profile, front	○ High-profile, rear
	Exhaust adapter	● Not included	○ Included
	Coolant temperature sensor	● Not included	○ Single/dual contact
	Oil pressure sensor	● Not included	○ Single/dual contact
<b>Starting aids</b>	Cold start aid	● Not included	○ Glow plug

## Physical data

Dimensions	Bare	Power Unit
Length	717 mm	890 mm
Width	519 mm	620 mm
Height	819 mm	990 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 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.

