PowerTech M2.9L

G-Drive NonCertified Diesel engine 40 kVA



Description

PowerTech M2.9L is a premiumheavy-dutyGeneratorDrive Diesel engine aimed at nonemissions regulated markets 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 M2.9L is designed and manufactured in Franc 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

PowerAssis^{₹M} app



Performance data

Power node(prime)		30 kVA prime/35 kVA standby				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 block loading capbility. Class G2 (ISO 85285). Turbocharging and air to air after cooling porides high power density and fuel efficiency.
- Performance in extreme conditions Superior cold starting, highaltitude capability, twostage 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 highulfur fuel.
- Extensive worldwide service network 4000+ service locations worldwide, 1 500+ service locations in Europe, gualified service technicians
- Fast delivery of maintenance & replacemethparts Worldwide parts distribution system, with overnight delivery in most regions.
- John Deere warranty: confidence is built in Best-in-class coverageStandard warranty 2 years/2000 hours. Extended warranty pt to 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 overhal, maintenancefree gear timing
- Single side service option All maintenancerelated options located on righband side (oil filter, oil dipstick, oil filler, oil drain, fuel filter)

EASY INTEGRATION

- High power density Same datform covers 30, 40 &
 kvA node. 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 selectiorF.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 witheduced6-week lead-time.

General Data

Model (Bare/Power Unit)	3029TFG20 / 3029TFU20
Configuration	3 cylinders, inline
Туре	4-stroke
Displacement	2.9L
Bore and stroke	106 x 110 mm
Compression ratio	17.2:1
Rotation	Counteclockwise
Injection type	Mechanical, comp. with egov
Aspiration	Turbocharged
Starter	3.2 kW, 12V
Alternator	65 amp, 12V
Total lubricating capacity	8L
Service	Right hand side
Flywheel housing	SAE4
Flywheel	10″
Cooling system	Water-cooled

Power Unit data

Model (Power Unit)	3029TFU20			
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	2.6	4.5	6.5	8.5
1500 rpm– 50 Hz	Standby power	2.9	4.9	7.2	9.2
1900 rpm 60 Hz	Prime power	3.3	5.4	7.8	9.9
1800 rpm– 60 Hz	Standby power	3.5	5.8	8.5	10.7

Optionality (Bare engineonly)

		Standard	Optional
General	Voltage	• 12V	O 24V
	Default speed (dual frequency ratings)	 1500 rpm 	○ 1800 rpm
	Flywheel housing	SAE4	○ SAE 3
	Flywheel	• 10"	O 11.5″
	Paint	Industrial tan	 Black, yellow, green, white
	Shipping stand	 Skid withplastic cover 	O Skid
Cooling system	Fan	 Not included 	O Blower,18"
	Crankshaft pulley	• 177.5 mm	O 140 mm
Air system	Air filter	 Not included 	O Light duty/Mediumduty
	Air restriction indicator	 Not included 	• O Mounted on air filter
Integration	Turbocharger	 High profile, front 	• High-profile, rear
	Exhaust adapter	 Not included 	O Included
	Coolant temperature sensor	 Not included 	O Single/dual contact
	Oil pressuresensor	 Not included 	• Single/dual contact
Starting aids	Cold start aid	 Not included 	O Glow plug

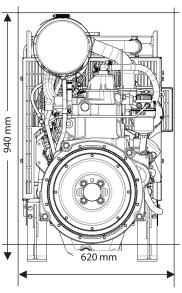
Physical data

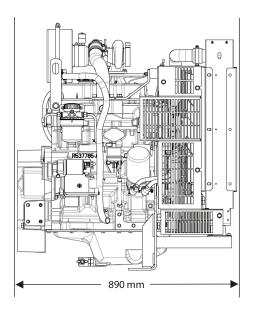
Dimensions	Bare	Power Unit		
Length	717 mm	890 mm		
Width	519 mm	620 mm		
Height	819 mm	990 mm		
Weight, dry	316 kg	410 kg		

Ratings definitions

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

Standby poweris 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%) b provide 100% meebr-exceed performance for assembled standby generator sets.





C + 961 (3) 059 995

6 961 (1) 311 737

support@img-lb.com houssam@img-lb.com

