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**1500 RPM    400/230 V 50 Hz    Type IDGPC125JD    125 /100 kVA/kW (PRP) 137.5/110 kVA/KW (LTP)**

The engine with integrated water cooling

70kVA/56kW Johndeere diesel engine generator with ISO and CE certificate

**Engine:** 6068TF258

**Alternator:** Stamford single Bearing with Insulation Class H

▶ **Generator Supply Scope:**

- Engine, alternator, radiator, auto control panel.
- Base frame, base fuel tank, Flexible pipes, flange, exhaust silencer .
- Battery, battery charger, battery wires, internal cables, circuit breaker.
- Manual books of engine, alternator, genset, control panel, wires diagram.

▶ **Engine**

- Engine : John Deere 6068TF258
- Displacement : 6.8dm<sup>3</sup>
- Cylinder quantity : 6 Cylinder
- Fuel consumption : 223g/kw.h
- Cooling Method : Water-cooled
- Air intake way : Turbocharged
- Coolant capacity : 26L
- Governor method : Electrical Governor

▶ **Alternator**

- Bearing: Single
- Insulation Class: H
- Phase: 3 Phase/Single Phase
- Protection Degree: IP 23
- Excitation way: Brushless excitationing
- Stamford

▶ **Benefits**

- Low noise emission, cost savings as no noise attenuation measures are required.
- Long service intervals: 1,000 hour oil change intervals and low fuel consumption bring savings in operating costs.
- Low installation costs.
- Low noise emission, cost savings as no noise attenuation measures are required.
- Combined oil cooling and lubrication prevents corrosion and cavitation.
- High reliability and durability together with reduced maintenance requirement and wear parts.

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### ▶ **Standby Power**

Standby Power is the nominal engine power available at varying load factors for up to 500 hours per year. This rating conforms to ISO 8528-1 "limited time running power(LTP)". The calculated generator set rating range for standby applications is based on minimum engine power (normal -5%) to provide 100% meet-or-exceed performance for assembled standby generator sets.

### ▶ **Prime Power**

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 8528-1 "Prime power (PRP)".

### ▶ **Key Features**

- Efficient water cooled John Deere diesel engine.
- Single bearing CGT Stamford alternator
- Radiator with pressure cap and drain point
- Fully guarded engine-driven fan
- Fully welded steel skid base with fork lift pockets
- Integral fuel tank with filler cap and gauge
- Heavy duty rubber anti-vibration mountings
- 12V starter battery and connecting cables
- Separate engine-driven battery charging alternator
- Spin on oil and fuel filters and dry type air filter element
- Industrial silencer (15dBA reduction) supplied loose
- Key Start control system with analogue instruments
- Main line circuit breaker
- Factory Test Certificate
- Operation & Maintenance Manual
- Wide range of optional extra features available

Technical Data			
Performance Data	Units	Prime	Standby
Model	6068TF258		
Number of Cylinder	6		
Engine Speed	r l min	1500	
Gross power	kWm	109	121
Fan Power	kWm	4	4
Net Power	kWm	105	117
Emission Certification	-		
Altitude Capability	m	2300	1500
General			
Cylinders/Type	4 cyl/inline/4-stroke		
Aspiration/Charge Cooling	Turbocharged/None		
Governing/Engine Management	Mechanical Governor		
Bore x stroke	mm	106/127	
Cubic Capacity	liters	6.8	
BMEP	kPa	1297	1440
Fuel			
Fuel Consumption at 100% Power	Liters/h	26.6	29.7
Fuel Consumption at 75% Power	Liters/h	20.2	22.3
Fuel Consumption at 50% Power	Liters/h	14	15.1
Total Fuel Flow	Liters/h	109	
Standard Fuel Tank Capacity	Liters	260	
Air			
Engine Air Flow	m <sup>3</sup> /s	0.108	0.117
Maximum Air Intake Restriction(Used filter)	kPa	6.25	
Exhaust			
Exhaust Gas Flow	m <sup>3</sup> /s	0.277	0.31
Exhaust Gas Temperature	°C	560	584
Maximum Exhaust Back Pressure	kPa	7.5	
Typical Exhaust Pipe Diameter	mm	100	
Cooling			
Radiator Cooling Air Flow	m <sup>3</sup> /s	1.4	
Max Restriction to cooling Air Flow	Pa	165	
Max Radiator Air-On Temperature	°C	50	
Maximum Coolant Temperature	°C	105	
Coolant Capacity – Engine Only	Liters	11.3	
Total Coolant Capacity	Liters	20	
Oil			
Total Oil Capacity incl. Filters	Liters	17	
Typical Oil Pressure at Rated Speed	kPa	345	
Typical Oil Consumption (>250hrs Operation)	Liters/h	0.07	
Thermal			
Heat Rejection to Engine Cooling Water	kW	61	68
Heat Rejection to Charge Cooler	kW	n/a	
Heat Radiated From Engine (Typical)	kW	13.6	15.1
Electrical			
Electrical System Voltage	V	12	
Battery Type		1x656	
Battery Capacity SAE CCA	A	810	

## ► Performance Data

Gross Rated Power (without fan)

Prime = PRP                      kW|hp                      109 |146

Standby = LTP                      kW|hp                      120|161

Rated Speed                      rpm                      1500

Low Idle Speed                      rpm                      No

BMEP

Prime = PRP                      kPa|psi                      1282|186

Standby = LTP                      kPa|psi                      1412 |205

Friction Power @  
Rated speed                      kW|hp                      13 |17

Altitude Capability

Prime = PRP                      m|ft                      2300|7500

Standby = LTP                      2300|7500

Air: Fuel Ratio

Prime = PRP                      27.9:1

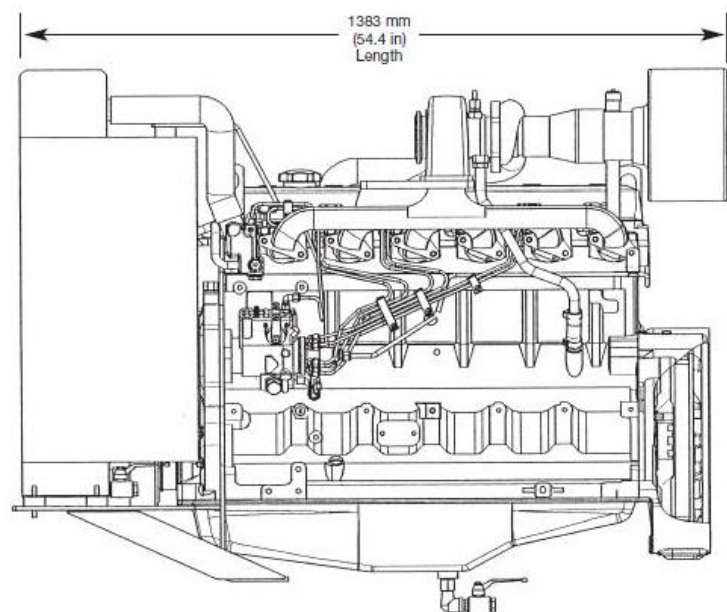
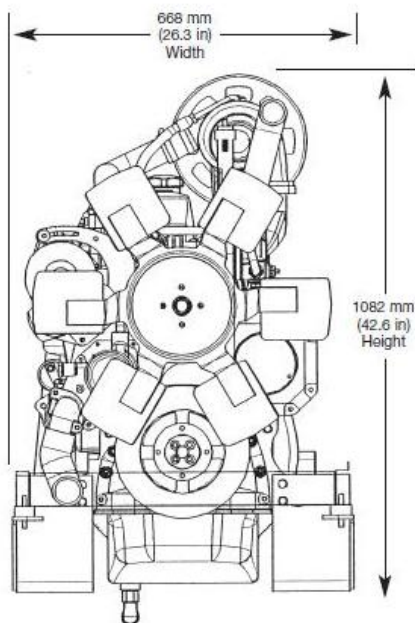
Standby = LTP                      27.6:1

Noise

Prime = PRP                      dB(A) @ 1 m                      91.2

Standby = LTP                      dB(A) @ 1 m                      92

## Power Unit Specification Data



### Greenpower AB

Helsingborgsvägen Varalöv

262 96 Ängelholm

Tel: 0431-222 40

Fax: 0431-222 70

E-mail: [info@greenpower.se](mailto:info@greenpower.se)

web:[www.greenpower.se](http://www.greenpower.se)