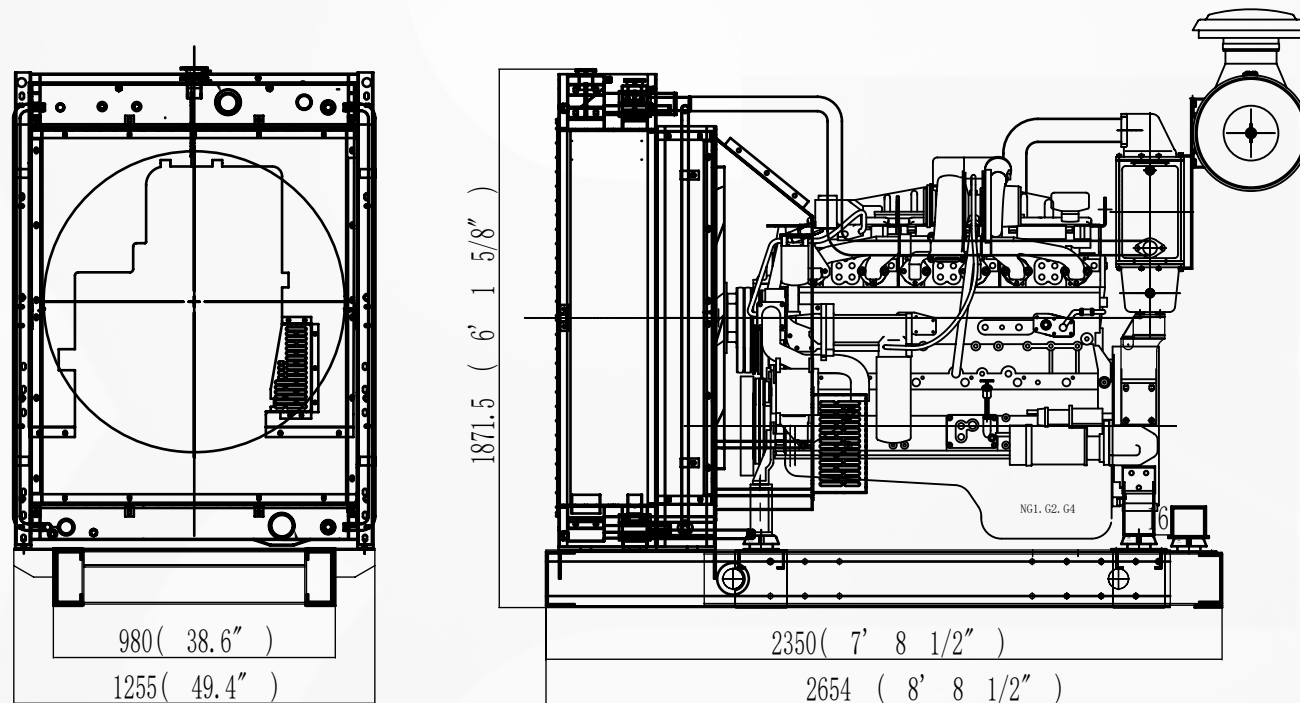


6L14TWG DIMENSIONS



PRODUCT OVERVIEW

The GRANDWATT 6L14TWG natural gas engine delivers the strong power and durability required for generator, water pumper or compressor applications. Its 6-cylinder in-line block, turbocharged and after-cooled engine features:

- Replaceable wet liners
- Water-cooled exhaust
- Water to air after-cooler with an individual radiator

Superior engine performance is provided by an ECM that integrates and coordinates all critical functions including:

**Ignition System • Variable Air Fuel Ratio Control
Speed Governer • Engine Motor & Protection**

The 6L14TWG is a dedicated, factory-built natural gas engine that is based on one of the globally popular diesel engines. It shares many of the same parts and components as its diesel counterpart, and it *operates on rich-burning & low-cost natural gas.*



FEATURES & BENEFITS

➤ Engine Control Module

Constantly monitors engine sensors, Ignition System, Air Fuel Ratio, Speed Governor and fuel system.

➤ High-Energy Ignition System

Performance and longer service intervals, durable spark plugs and coils.

➤ High-Efficiency Cooling System

The High-Efficiency engine radiator, Electric fan and the individual High-Efficiency radiator for the water to air after-cooler, to drive more intake air to the cylinders.

➤ Accessory Belt Drive System

Self-tensioning serpentine polyvee belt accessory drive system for water pump, engine-mounted fan hub and alternator.

➤ Extendable Base Frame

Extendable Base Frame with anti-vibration system allows for easy installation of alternator, water pump or compressor.

➤ Optional Control System for Generator set

Auto & remote start controller with multi-protection & monitors are inside a weather proof enclosure. The highly protective wire harness is adjustable for any configuration.



Greener • Durable • Economical

6L14TWG SPECIFICATIONS

Standard Configuration	Std		Metric	
	1500 rpm	1800 rpm	1500 rpm	1800 rpm
General Data				
Number & Type of Cylinders	6 In-Line			
Aspiration	Turbocharged with water after cooler			
Total displacement	855 In ³		14 Liters	
Bore & Stroke	5.5 in × 6 in		140 mm × 152 mm	
Compression Ratio	10.5 : 1			
Mean Piston Speed	25 ft/s	30 ft/s	7.6 m/s	9.12 m/s
Dry Weight (Only Engine)	2740 lb		1250 kg	
Power Rating				
Gross Standby Power (without Fan)				
Net Standby Power (with Fan)				
Gross Prime Power (without Fan)				
Net Prime Power (with Fan)				
Cooling System				
Engine Coolant System Capacity			72 Liters	
Turbocharge Coolant System Capacity			7 Liters	
Rated Ambient Temp. of Radiator	104 F		40 °C	
Max allowable Coolant Temperature	217 F (@ 100% Rated Load)		103 °C (@ 100% Reated Load)	
Lubrication System				
Engine Oil Capacity	10 Gallons		38.6 Liters	
Max allowable Oil Temperature	250 F		121 °C	
Oil Pressure at Rating Speed	psi	psi	270-410 kPa	
Exhaust System				
Type	Water Cooled Manifold			
Max allowable Back Pressure			10 kPa	
Max allowable Turbine Inlet Temp.	F	F	°C	°C
Air Induction System				
Max allowable Intake Air Restriction				
with Clean Air Filter	inH ₂ O	inH ₂ O	4 kPa	kPa
with Dirty Air Filter	inH ₂ O	inH ₂ O	6 kPa	kPa
Combustion Air required (volume)	cfm	cfm	m ³ /min	m ³ /min
Fuel System				
Fuel Consumption @ Rated Load	lb/hr	lb/hr	kg/hr	kg/hr
Max EPR Rated Pressure	psi	psi	kPa	kPa
Electric System				
Electric system Voltage	24 VDC			
Minimum Battery Capacity	150 AH			
Battery Charging Alternator Current	40 A			
Base Frame				
Two Stages Extendable Base Frame				
Anti-vibration System		6 pcs Vibration Absorbers of 880 lb.	6 pcs Vibration Absorbers of 400 kgf	