

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 Governor • 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.



HEAVY-DUTY 14L ENGINE

Industrial Stationary

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

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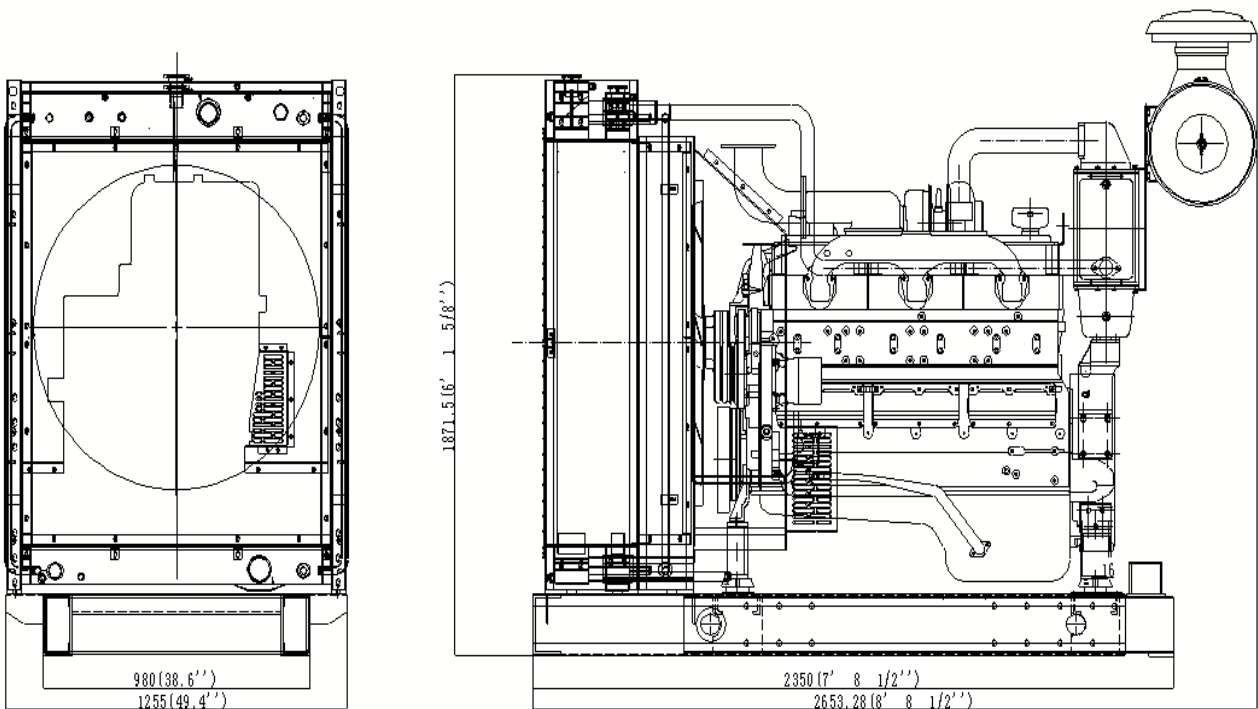
Natural Gas Engine Kit

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 × 6.0 in		140 mm × 152 mm	
Compression Ratio	10.5 : 1			
Mean Piston Speed	24.93 ft/s	29.85 ft/s	7.6 m/s	9.1 m/s
Dry Weight (Only Engine)	3200 lb		1450 kg	
Power Rating				
Gross Standby Power (without Fan)	384 HP	384 HP	287 kw	287 kw
Net Standby Power (with Fan)	365 HP	365 HP	273 kw	273 kw
Gross Prime Power (without Fan)	351 HP	351 HP	262 kw	262 kw
Net Prime Power (with Fan)	332 HP	332 HP	248 kw	248 kw
Cooling System				
Engine Coolant System Capacity	14.8 Gallons		56 Liters	
Turbocharge Coolant System Capacity	11.4 Gallons		43 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	9.8 Gallons		37 Liters	
Max allowable Oil Temperature	250 F		121 ° C	
Oil Pressure at Rating Speed	35-50 psi	35-50 psi	241-345 kPa	241-345 kPa
Exhaust System				
Type	Water Cooled Manifold			
Max allowable Back Pressure	40 inH ₂ O	40 inH ₂ O	10 kPa	10 kPa
Max allowable Turbine Inlet Temp.	1202 F	1202 F	650 ° C	650 ° C
Air Induction System				
Max allowable Intake Air Restriction				
with Clean Air Filter	15 inH ₂ O	15 inH ₂ O	3.73 kPa	3.73 kPa
with Dirty Air Filter	25 inH ₂ O	25 inH ₂ O	6.25 kPa	6.25 kPa
Combustion Air required (volume)	630 cfm	630 cfm	17.85 m ³ /min	17.85 m ³ /min
Fuel System				
Fuel Consumption @ Rated Load	133.3 lb/hr	135.1 lb/hr	60.44 kg/hr	61.28 kg/hr
Max EPR Rated Pressure	70 psi	70 psi	500 kPa	500 kPa
Electric System				
Electric system Voltage	24 VDC			
Minimum Battery Capacity	200 AH			
Battery Charging Alternator Current	40 A			
Base Frame				
Two Stages Extendable Base Frame				
Anti-vibration System				
6 pcs Vibration Absorbers of 1543 lb.		6 pcs Vibration Absorbers of 700 kgf		

POWER YOUR IMAGINATION

6L14TWG DIMENSIONS



The Engine Supplier

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