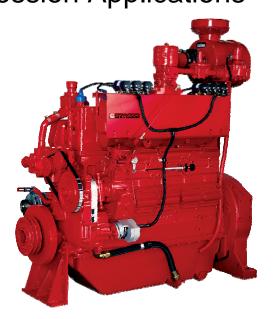
G855 & GTA855 Gas Compression Applications





The demands of wellhead and gathering compression applications require an engine that is reliable and durable. For dependable operations and world class support, you need the Cummins G855 and GTA855 – a high-performance natural gas engine that shares the proven heritage of the Cummins diesel engines and many of the same heavy-duty components. You can depend on Cummins engines to keep maintenance costs down and the gas flowing. Every day.

General Specifications Inline 6-cylinder, 4-Cycle, Natural Gas

5.5 in (140 mm)	
6.0 in (152 mm)	
14.0 L (855 cubic in)	
157-286 hp (117-213 kW)	
NA: 10:1 TA: 8.5:1	
Naturally aspirated or turbocharged aftercooled	
Watercooled manifold	
2970 lb (1347 kg)	
5.5 gal (20.8 L)	
15.0 gal (57.0 L)	
Counterclockwise	

^{*} Rating dependent

Features

Designed for the oil and gas market, the G855 and GTA855 deliver exceptional dependability and low cost of operation.

Base Engine – Most major components, including block, crank, cam, gears and liners are common with the proven N series diesel.

Emissions – The G855 and GTA855 have catalyst ratings available to allow the engine to be operated as a rich burn engine and can be customer equipped with an AFR and catalyst to meet NSPS emissions requirements. The GTA855 also has export only ratings available.

Air Handling – The naturally aspirated G855 and turbocharged and aftercooled GTA855 deliver reliable performance and life.

Fuel System – Impco carburetor provides stable operation and fuel tracking through all load ranges.

Speed Control – Adjustable pressure-compensated hydraulic governor provides precise and stable rpm control under all load conditions.

Ignition System – Altronic V integral electronic ignition system with easily accessible spark plug location and single coil per cylinder for lower maintenance costs.

Lubrication System – High-capacity oil pan and combination full-flow and bypass oil filter reduces maintenance costs and extend service intervals.

Warranty – Cummins one year, unlimited hours. Backed by a worldwide distributor network.

^{**} Weight is approximate and varies with options.

Rating Details.

Model	Curve Number	Rating	Emissions	Combustion
G855	FR-10523	157 hp @ 1500 rpm	(1)	Rich
G855	FR-10526	188 hp @ 1800 rpm	(1)	Rich
GTA855	FR-10688	225 hp @ 1800 rpm	(1)	Rich
GTA855	FR-10533	256 hp @ 1800 rpm	Export Only	Standard
GTA855	FR-10531	281 hp @ 1800 rpm	Export Only	Standard
GTA855	FR-10529	286 hp @ 1800 rpm	Export Only	Standard
GTA855	FR-10539	213 hp @ 1500 rpm	Export Only	Standard
GTA855	FR-10537	234 hp @ 1500 rpm	Export Only	Standard
GTA855E	FR-10535	238 hp @ 1500 rpm	Export Only	Standard

⁽¹⁾ NSPS compliant with customer installed Air-fuel ratio (AFR) controller and catalyst.

Standard Equipment.

Air Inlet System

Factory installed heavy duty air cleaner

Cooling System

- Two pump / two loop cooling system GTA855
- Gear driven jacket water pump
- Gear driven auxiliary coolant pump GTA855
- Thermostat controlled jacket water circuit
- Coolant filter for added corrosion protection
- Auxiliary coolant pump optional for compressor cooling G855

Exhaust System

Watercooled manifold

Fuel System

- Impco carburetor
- Maxitrol regulator

Speed Control System

- Gear driven Woodard hydraulic / mechanical governor
- Electronic governor optional

Ignition System

- Altronic V ignition system
- Altronic III ignition system optional
- Altronic V shielded ignition optional
- Altronic III shielded ignition optional

Lube Oil System

- Crankcase breather
- High capacity oil pan for extended oil drain intervals
- Combination full flow and bypass oil filter

Safety Shutoff Protection

Electric fuel valve

Mounting Arrangement

- Front and rear engine mounting
- Lift provisions on engine

Flywheel and Flywheel Housing

- Flywheel SAE #1
- Flywheel housing SAE #1 Cast-iron, machined to accommodate starter mounting

Electrical System

24-volt alternator

Starting System

- 24-volt starter
- Gas starter optional

Power Take-Off

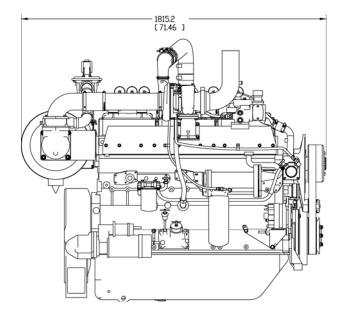
Front crankshaft pulley

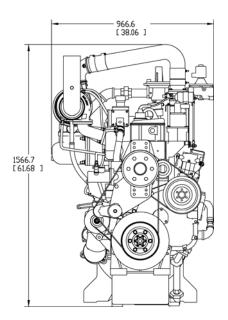
^{*} Requires EPA site validation testing.

Engine Technical Data.

FR-10523 (2)		
11(-10323 (2)	FR-10688 (2)	FR-10529 (2)
Dry Manifold	Wet Manifold	Wet Manifold
188 (140)	225 (168)	286 (213)
141 (105)	169 (126)	215 (160)
1800	1800	1800
1350	1350	1350
N/A	130 (54.4)	130 (54.4)
10:1	8.5:1	8.5:1
)		
5.9 (7.91)	12.1 (16.23)	7.6 (10.2)
26.7 (35.81)	2.9 (3.89)	1.1 (1.48)
1.90	1.43	0.52
0.54	0.41	4.20
r) 8605 (12.2)	8478 (12.0)	8224 (11.6)
9870 (14.0)	9077 (12.8)	8631 (12.2)
8154 (143.38)	11445 (201.3)	12677 (223)
N/A	807 (14.19)	1902 (33.5)
5674 (99.77)	8137 (143.08)	11792 (207.4)
866 (409)	945 (446)	1851 (874)
1196 (647)	1304 (707)	1337 (725)
2	2	2
260 (123)	411 (194)	605 (286)
15	15	15
10-20	10-20	10-20
() () () ()	141 (105) 1800 1350 N/A 10:1 s (1) 5.9 (7.91) 26.7 (35.81) 1.90 0.54 W-hr) 8605 (12.2) W-hr) 9870 (14.0) 8154 (143.38) N/A 5674 (99.77) 866 (409) 1196 (647) 2 260 (123) 15	141 (105) 169 (126) 1800 1800 1350 1350 N/A 130 (54.4) 10:1 8.5:1 s (1) 5.9 (7.91) 12.1 (16.23) 26.7 (35.81) 2.9 (3.89) 1.90 1.43 0.54 0.41 W-hr) 8605 (12.2) 8478 (12.0) 9870 (14.0) 9077 (12.8) 8154 (143.38) 11445 (201.3) N/A 807 (14.19) 5674 (99.77) 8137 (143.08) 866 (409) 945 (446) 1196 (647) 1304 (707) 2 2 260 (123) 411 (194) 15 15

General Dimensions.





Turbocharged model pictured above

Dimensions*		NA	TA
Length	Inches (mm)	67.7 (1718)	71.5 (1815)
Width	Inches (mm)	35.9 (912)	38.1 (966)
Height	Inches (mm)	53.9 (1368)	61.7 (1567)

^{*} Dimensions are approximate and vary with options.

Disclaimers.

(2) All data is based on the engine operating with fuel system, water pump, and 8 in H2O (1.991 kPa) inlet air restriction with 5 in (127 mm) inner diameter, and with 1.1 in Hg (4 kPa) exhaust restriction with 4 in (102 mm) inner diameter; not included are alternator, fan, optional equipment and driven components. Coolant flows and heat rejection data based on coolants as 50% ethylene glycol/50% water. All data is subject to change without notice.



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