

ГАЗОВЫЕ ДВИГАТЕЛИ СЕРИИ TCG 2015



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TCG 2015

for stationary applications

164 - 240 kW|220 - 322 hp at 1500 - 1800 min⁻¹|rpm
US EPA 40CFR60, stationary only

- Water-cooled V6 and V8 engines with turbocharging, charge air cooling and four-valve technology.
- Complete gas train and engine monitoring system for natural gas operation.
- Individual cylinder heads, wet cylinder liners, long oil change intervals and easy changing of the engine fluids reduce the running and service costs and increase the availability of the machinery.



- Easy installation: Turn-key solution with single cooling circuit and low space claim due to the very compact engine design.
- Gear driven fan-hub and flexible cooling options lead to reduced maintenance and installation costs.
- Strong base engine well proved in many applications under toughest conditions.

Technical data

Engine type		TCG 2015 V6	TCG 2015 V8
No. of cylinders		6	8
Bore/stroke	mm in	132/145 5.2/5.7	132/145 5.2/5.7
Displacement	l cu in	11.9 727	15.9 969
Weight (without cooler and fan)	kg lb	995 2194	1290 2844

1500 rpm (50 Hz)

Power ¹⁾		TCG 2015 V6	TCG 2015 V8
Gross power (no fan)	kW hp	164 220	220 295
Net flywheel	kW hp	153 206	209 281

1800 rpm (60 Hz)

Power ¹⁾		TCG 2015 V6	TCG 2015 V8
Gross power (no fan)	kW hp	180 241	240 322
Net flywheel	kW hp	162 217	222 298

1) Power (kW) according to ISO 14396.

The data on this data sheet are for information purposes only and are not binding values. The data in the quotation is definitive.

1500 rpm (50 Hz)

Fuel consumption ¹⁾		TCG 2015 V6	TCG 2015 V8
Fuel consumption 50% load	g/kWh lb/hph	235 0.39	240 0.39
Fuel consumption 75% load	g/kWh lb/hph	220 0.36	229 0.38
Fuel consumption 100% load	g/kWh lb/hph	214 0.35	222 0.36
Heat balance & cooling system		TCG 2015 V6	TCG 2015 V8
Heat dissipation (engine radiator) ²⁾	kW hp	168 225	225 302
Heat dissipation (convection)	kW hp	9 12	12 16
Fan power consumption	kW hp	11 14	11 14
Inlet & exhaust data		TCG 2015 V6	TCG 2015 V8
max. intake depression	mbar psi	50 0.73	55 0.8
Combustion air volume	m ³ /h cfm	762 448	1125 662
max. exhaust gas temperature	°C °F	450 842	450 842
Exhaust gas flow	m ³ /h cfm	1817 1069	2690 1583

1800 rpm (60 Hz)

Fuel consumption ¹⁾		TCG 2015 V6	TCG 2015 V8
Fuel consumption 50% load	g/kWh lb/hph	258 0.42	262 0.43
Fuel consumption 75% load	g/kWh lb/hph	233 0.38	236 0.39
Fuel consumption 100% load	g/kWh lb/hph	223 0.35	230 0.38
Heat balance & cooling system		TCG 2015 V6	TCG 2015 V8
Heat dissipation (engine radiator) ²⁾	kW hp	185 248	247 331
Heat dissipation (convection)	kW hp	10 13	13 18
Fan power consumption	kW hp	18 24	18 24
Inlet & exhaust data		TCG 2015 V6	TCG 2015 V8
max. intake depression	mbar psi	50 0.73	55 0.8
Combustion air volume	m ³ /h cfm	859 506	1323 779
max. exhaust gas temperature	°C °F	450 842	450 842
Exhaust gas flow	m ³ /h cfm	2050 1207	3162 1861

1) Refers to dry natural gas, methane number >70, lower calorific value 9,832 kWh/m³.

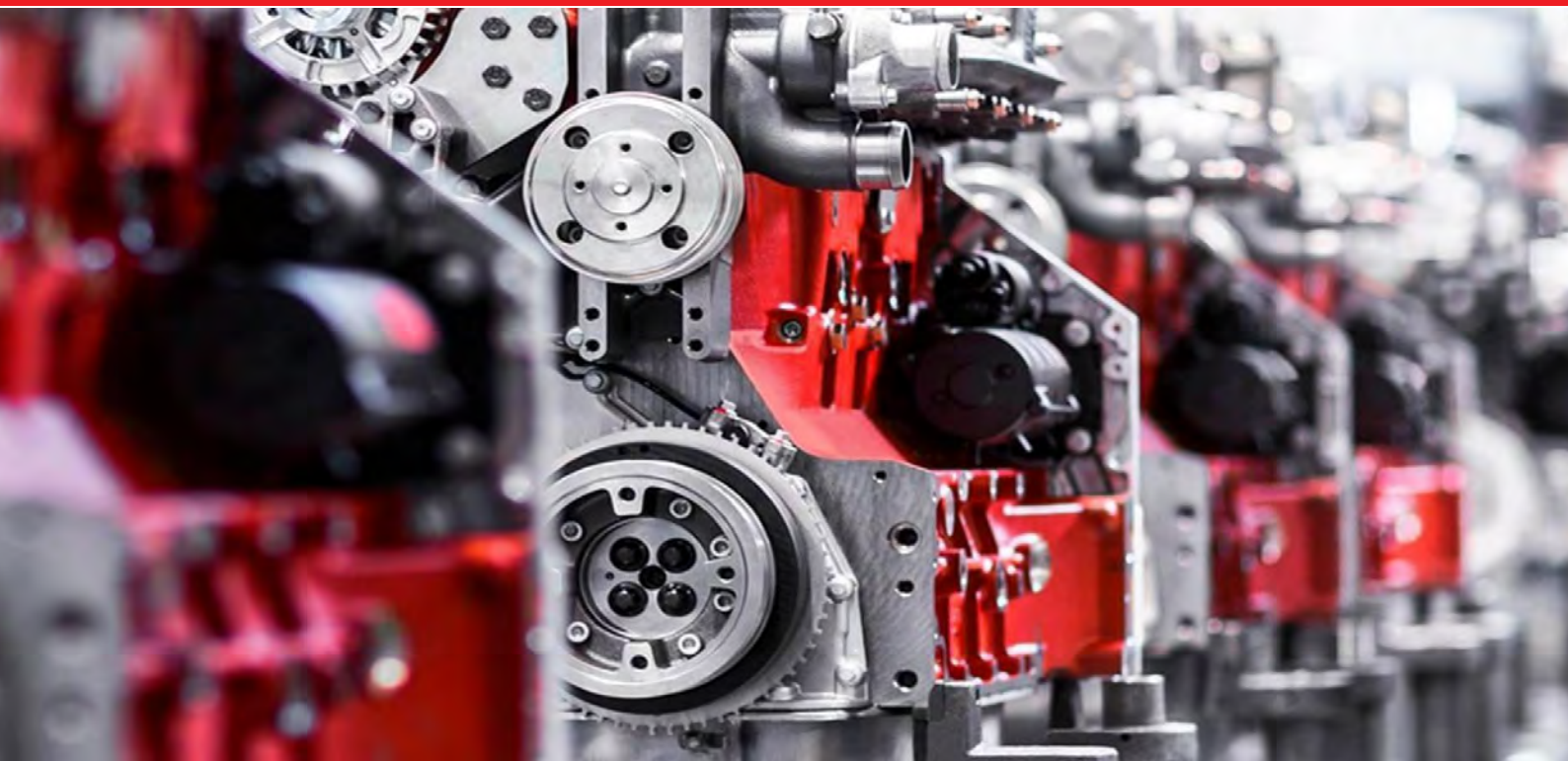
2) The heat quantities are valid for the dimensioning of the cooling system.

Dimensions



		A	B	C
TCG 2015 V6	mm in	1410 55.5	1110 43.7	1745 68.7
TCG 2015 V8	mm in	1575 62.0	1110 43.7	1745 68.7

Note: The engine dimensions and weights vary depending on the scope of delivery.



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