



KTA38-G9 Advantage Data Sheet

Cummins Inc. Columbus, Indiana 47201

Curve Number: FR- 6454	Engine Critical Parts List: CPL -8586	Date: 12May04
Displacement : 37.8 litre (2300 in³)	Bore : 159 mm (6.25 in.)	Stroke : 159 mm (6.25 in.)
No. of Cylinders : 12	Aspiration : Turbocharged and Aftercooled	

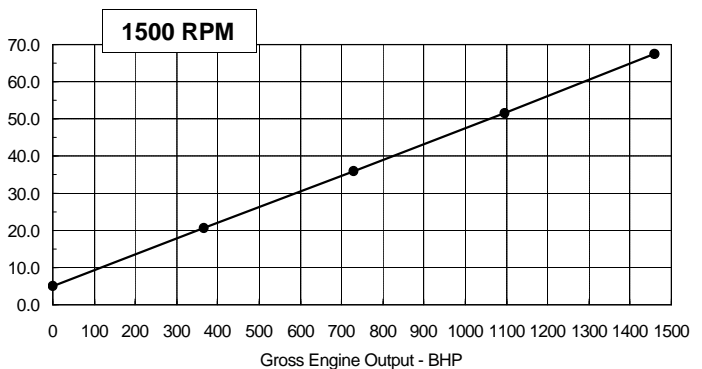
Emergency Standby Ratings for Application in Corporate Generator Sets Only

Engine Speed RPM	Standby Power	
	kWm	BHP
1500	1089	1460

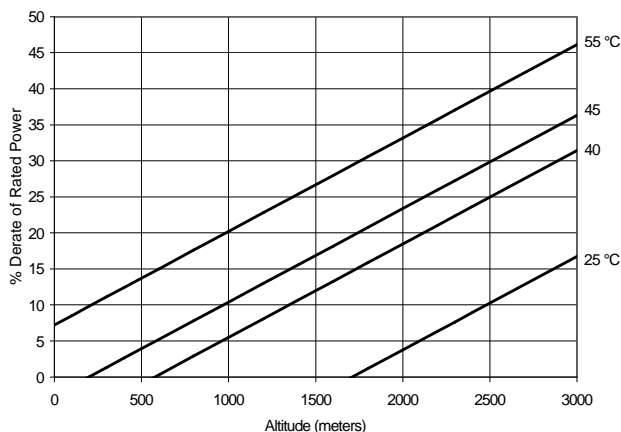
Engine Performance Data @ 1500 RPM:

OUTPUT POWER			FUEL CONSUMPTION			
%	kWm	BHP	kg/ kWm-h	lb/ BHP-h	Litre/ hour	U.S. Gal/ hour
STANDBY POWER						
100	1089	1460	0.199	0.328	256	67.4
75	817	1095	0.204	0.335	196	51.7
50	545	730	0.213	0.350	137	36.0
25	272	365	0.246	0.403	79	20.7

Liter / hour



Power Derate Curve @ 1500 RPM:



Operation At Elevated Temperature and Altitude:

For sustained operation above these conditions, derate by an additional 4% per 300 m (1000 ft), and 10% per 10° C (5.5% per 10 deg F).

CONVERSIONS:(litres = U.S. Gal x 3.785) (U.S.Gal = litres x 0.2642)

Data Subject to Change Without Notice

These guidelines have been formulated to ensure proper application of generator drive engines in A.C. generator set installations.

STANDBY POWER RATING: Applicable for supplying emergency power for the duration of the utility power outage. No overload capability is available for this rating. Under no condition is an engine allowed to operate in parallel with the public utility at the Standby Power rating. This rating should be applied where reliable utility power is available. A Standby rated engine should be sized for a maximum of an 70% average load factor and 200 hours of operation per year. This includes less than 5 hours per year at the Standby Power rating. Standby ratings should never be applied except in true emergency power outages. Negotiated power outages contracted with a utility company are not considered an emergency.

Reference AEB 10.47 for determining Electrical Output.

Data shown above represent gross engine performance capabilities obtained and corrected in accordance with ISO-3046 conditions of 100 kPa (29.53 in Hg) barometric pressure [110 m (361 ft) altitude], 25 °C (77 °F) air inlet temperature, and relative humidity of 30% with No. 2 diesel or a fuel corresponding to ASTM D2. Derates shown are based on 15 in H₂O air intake restriction and 2 in Hg exhaust back pressure.

The fuel consumption data is based on No. 2 diesel fuel weight at 0.85 kg/litre (7.1 lbs/U.S. gal). Power output curves are based on the engine operating with fuel system, water pump and lubricating oil pump; not included are battery charging alternator, fan, optional equipment and driven components.

Data Status: Pre- Production

Data Tolerance:

Chief Engineer: