



Doosan Infracore
Portable Power

Service Letter

SL: 30004
Date: 18 April 2011
Product: Generators
Subject: Generators Derating Versus Ambient Temperature And Altitude

MODEL	SERIAL NUMBER
G60 to G500	All S/N

Due to some applications involving high altitude locations, Doosan Infracore is releasing this Service Letter to clarify the engine and alternators derating versus altitude and temperature.

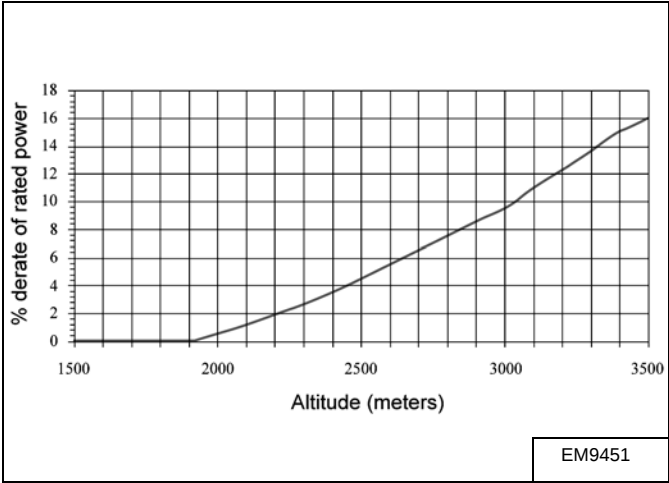
Generators

MODEL	FUEL TEMP. RISE OF 1°C ABOVE 40°C	AIR TEMP. RISE OF 5,5°C ABOVE 40°C	ALTITUDE RISE OF 300 M ABOVE STATED ALTITUDE CAPABILITY WITHOUT DERATING
G60	0,19	0,50	4,00
G80 up to G200	None (ECU compensated)	0,50	4,00
G250	None (ECU compensated)	See [Figure 1] and [Figure 2]	
G400 and G500	None (ECU compensated)	See [Figure 3] and [Figure 4]	

Power Derate Curves For G250 Generators

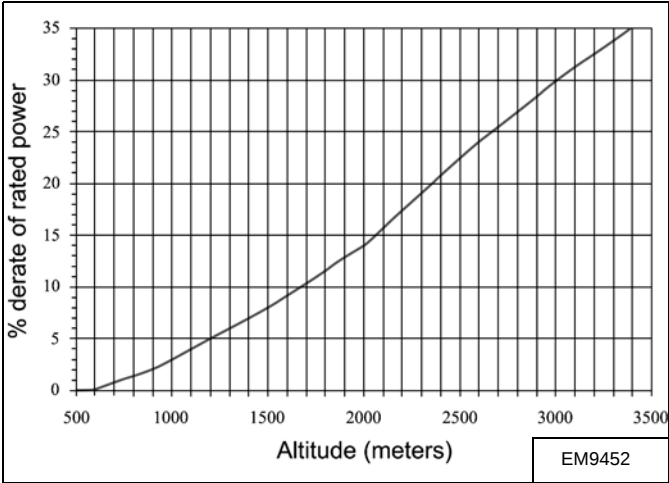
Ambient Temperature Of 25°C

Figure 1



Ambient Temperature Of 40°C

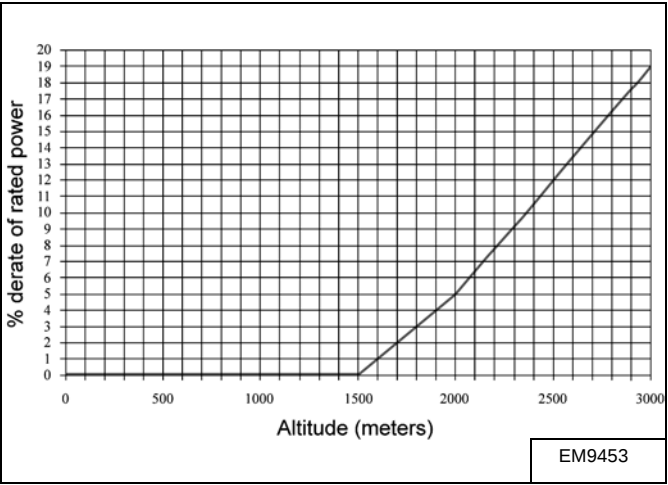
Figure 2



Power Derate Curves For G400 And G500 Generators

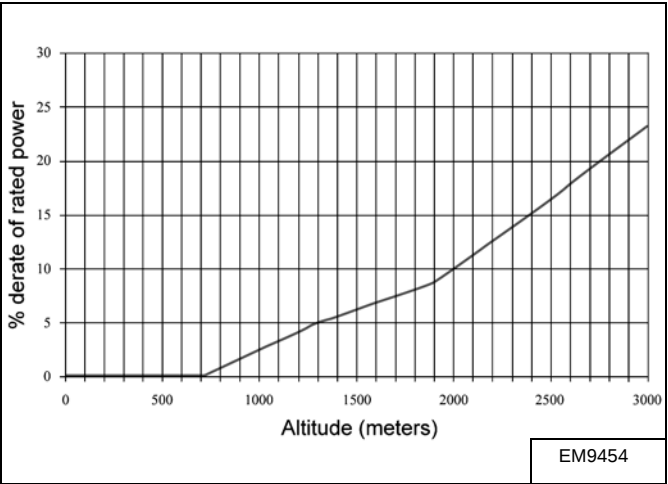
Ambient Temperature Of 25°C

Figure 3



Ambient Temperature Of 40°C

Figure 4



Altitude Capability Without Derating, Prime Power

MODEL	ALTITUDE (M)
G60	2300
G80	2300
G100	2300
G160	2300
G200	2300
G250	1800
G400	1500
G500	1500

Alternators

Multiply nominal rating by derating factor from following chart:

	AMBIENT TEMPERATURE (°C)					
ALTITUDE (M)	25	40	45	50	55	60
0 - 1000	1,045	1	0,97	0,94	0,91	0,88
1000 - 1500	1,01	0,97	0,94	0,91	0,88	0,85
1500 - 2000	0,98	0,94	0,91	0,88	0,85	0,83
2000 - 2500	0,95	0,91	0,88	0,86	0,83	0,8
2500 - 3000	0,91	0,87	0,84	0,82	0,79	0,77