

1. GENERAL

1500rpm

1800rpm

Engine model		13G45
Basic Engine Type		Ford Ecotorq Genset Engine - Diesel
Exhaust Emission Level		Non regulated
Number of cylinders		6
Cylinder Arrangement		Inline
Valves per cylinder		4 (2 x exhaust - 2 x intake)
Cycle		Diesel 4 stroke
Injection System		HPCR (High Pressure Common Rail)
Electronic Engine Control Unit		Bosch - 2500bar
Turbocharger		VNT Controlled (Variable Nozzle Type)
Cylinder block		Single Main Bearing Cap without ladder frame
Liner type		Wet Liner, cast iron
Piston		Friction welding single piece steel
Induction System		Turbo aftercooler air to air
Valvetrain system		SOHC (Single Overhead Camshafts)
Bore	mm	130
Stroke	mm	160
Total Displacement	L	12.7
Compression Ratio		17 : 1
Housing Flywheel		SAE 1
Flywheel		14"
Dry Weight	kg	1175
Paint Colour		Black
Dimensions L x W x H	mm	1392 x 1095 x 1173

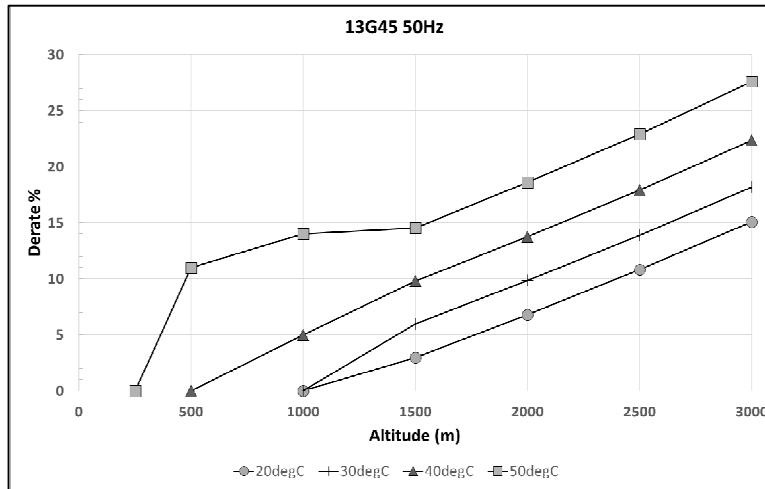
2. PERFORMANCE

1500rpm

1800rpm

Stand by Power (net)	kW	387	378
Prime Power (net)	kW	351	344
Continuous Power (net)	kW	237	241
Performance Condition			
temperature	°C	≤ 40	≤ 40
altitude	m	≤ 1000	≤ 1000
Derating			
temperature > 40°C	%/5°C	4,5%	4,5%
altitude > 1000m < 3000m	%/500m	see table	-

Derate curves – 1500 rpm



3. COOLING SYSTEM

1500rpm

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Type	Liquid	
Recommended Coolant	Havoline XLC %50 water - %50 glycol (WSS M97B44 D)	
Air to Boil (Prime Power)	°C	50
		TBD

4. LUBRICATION SYSTEM

1500rpm

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Oil filter	2 cartridge x Full Flow, fitted on exhaust side	
Oil cooler	Combined with oil filter, fitted on exhaust side	
Oil pump	Gear type	
CCV System	Not available on the genset engine	
Service interval	hours	500hr / 1 year
Oil specification	WSS M2C944 A1 (SAE 10W/40)	

5. INTAKE SYSTEM

1500rpm

1800rpm

Air filter type	Dual Stage - Dry type	
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6. FUEL SYSTEM

1500rpm

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Fuel Consumption at			
Stand by	g/kWh (l/h)(kg/h)	195 (91.7) [77]	203.5 (96.9) [81.4]
Full Load	g/kWh (l/h)(kg/h)	191.6 (82.1) [69]	200.5 (87.5) [73,5]
75% Load	g/kWh (l/h)(kg/h)	186 (60.7) [51]	200 (66.6) [56]
50% Load	g/kWh (l/h)(kg/h)	171 (38.1) [32]	198 (47.6) [39,5]
Fuel filter	2 cartridge x Full Flow, fitted on intake side		
Pre Fuel Filter	Available in the genset kit		
Fuel Specification	EN590		

7. ELECTRIC SYSTEM

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Voltage (negative to ground)	V	24
Starter Motor		
make		Melco
power	Kw	6,5
Alternator		
make		Melco
voltage	V	24
charge	Amp	130

8.COLD STARTING

1500rpm

1800rpm

Without air preheating	°C	-10°C
With air preheating	°C	-25°C

