

Output Ratings

Generating Set Model	P13.5 - 4	
	Prime	Standby
380 – 415V, 50 Hz	12.5 kVA	13.8 kVA
	10.0 kW	11.0 kW
220/127V, 60 Hz	15.0 kVA	16.2 kVA
	12.0 kW	13.0 kW

Ratings at 0.8 pf

Ratings Definitions

Prime

These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. There is no limitation to the annual hours of operation and this model can supply 10% overload power for 1 hour in 12 hours.

Standby

These ratings are applicable for supplying continuous electrical power (at variable load) in event of a utility power failure. No overload is permitted on these ratings. The alternator on this model is peak continuous rated (as defined in ISO8528-3).

Technical Data

Engine Model:	Perkins 403D-15G	
Alternator Model:	LL1014H	
Number of Cylinders:	3 in line	
Cubic Capacity: Litres (cu.in)	1.50 (91.3)	
Bore/Stroke: mm (in)	84 (3.3) / 90 (3.5)	
Compression ratio:	22.5:1	
Aspiration:	Naturally Aspirated	
Frequency:	50 Hz	60 Hz
Engine Speed:	1500 RPM	1800 RPM
Gross Engine Power: kW (hp)	13.5 (18.0)	16.2 (22)
BMEP: kPA (psi)	722 (104.7)	722 (104.7)
Piston Speed: m/sec (ft/sec)	4.5 (14.8)	5.4 (17.7)
Fuel Tank Capacity: Litres (US Gal)	45 (11.9)	45 (11.9)
Fuel Consump, P12.5P2: 1/hr (USg/hr)	3.6 (1.0)	4.3 (1.1)
Fuel Consump, P13.5E2: 1/hr (USg/hr)	4.0 (1.1)	4.7 (1.2)
Heat Rejection to Exhaust System: kW (Btu/min)	10.3 (586)	11.8 (671)
Heat Rejection to Cooling System: kW (Btu/min)	14.6 (830)	16.9 (961)
Total Radiated Heat: kW (Btu/min)	3.5 (199)	4.3 (245)
Exhaust Temperature: °C (°F)	480 (896)	505 (941)
Radiator Cooling Air Flow: m3/min (cfm)	31.2 (1102)	43.2 (1526)
Combustion Air Flow: m3/min (cfm)	1.1 (38)	1.2 (43)
Exhaust Gas Flow: m3/min (cfm)	2.2 (78)	3.4 (119)

Note: Standard reference conditions 25°C (77°F) Air Inlet Temp, 152.4m (500ft) A.S.L. 60% relative humidity. All engine performance data based on the above mentioned maximum continuous ratings. Fuel consumption data at full load with diesel fuel with specific gravity of 0.85 and conforming to BS2869: 1998, Class A2.

Dimensions and Weights

Length: mm (in)	Width: mm (in)	Height: mm (in)	Dry: kg (lb)	Wet: kg (lb)
1320 (52)	552 (21.7)	1179 (46.4)	387 (853)	393 (866)
Dry = With Lube Oil		Wet = With Lube Oil and Coolant		

Generating set pictured may include optional accessories



YOUR PARTNER IN POWER

P13.5-4

TEL./ FAX. : 0044 2893 355674
 Website: www.marapco.com
 N. Ireland - UK

In line with our policy of continuous product development, we reserve the right to change specification without notice.



Dec-08