

Output Ratings

Generating Set Model	P22 - 4	
	Prime	Standby
380 – 415V, 50 Hz	20.0 kVA	22.0 kVA
	16.0 kW	17.6 kW
220/127V, 60 Hz	22.5 kVA	25.0 kVA
	18.0 kW	20.0 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 404D-22G	
Alternator Model:	LL1014N	
Number of Cylinders:	4 in line	
Cubic Capacity: Litres (cu.in)	2.2 (135.2)	
Bore/Stroke: mm (in)	84 (3.3) / 100 (3.9)	
Compression ratio:	23.3:1	
Aspiration:	Naturally Aspirated	
Frequency:	50 Hz	60 Hz
Engine Speed:	1500 RPM	1800 RPM
Gross Engine Power: kW (hp)	20.6 (28)	24.3 (33)
BMEP: kPA (psi)	743 (107.8)	731 (106)
Piston Speed: m/sec (ft/sec)	5.0 (16.4)	6.0 (19.7)
Fuel Tank Capacity: Litres (US Gal)	45 (11.9)	45 (11.9)
Fuel Consump, P20P2: 1/hr (USg/hr)	5.3 (1.4)	5.8 (1.5)
Fuel Consump, P22E2: 1/hr (USg/hr)	5.9 (1.6)	6.5 (1.7)
Heat Rejection to Exhaust System: kW (Btu/min)	16.6 (944)	18.3 (1041)
Heat Rejection to Cooling System: kW (Btu/min)	21.6 (1228)	24.2 (1376)
Total Radiated Heat: kW (Btu/min)	4.4 (250)	4.6 (262)
Exhaust Temperature: °C (°F)	481 (898)	510 (950)
Radiator Cooling Air Flow: m3/min (cfm)	33 (1165)	41.4 (1462)
Combustion Air Flow: m3/min (cfm)	1.5 (51)	1.7 (61)
Exhaust Gas Flow: m3/min (cfm)	4.5 (159)	4.8 (168)

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)	460 (1014)	467 (1030)
Dry = With Lube Oil		Wet = With Lube Oil and Coolant		

Generating set pictured may include optional accessories

Marapco
GENERATORS



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P22-4

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