

Output Ratings

Generating Set Model	P563P1	P625E1
480V, 60 Hz	563 kVA 450 kW	625 kVA 500 kW

Ratings at 0.8 pf

Ratings Definitions

Prime Power – Model P563P1

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 Power – Model P625E1

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 2806C-E16TAG1
Alternator Model:	LL6014J
Number of Cylinders:	6 in-line
Cubic Capacity: Litres (cu.in)	15.8 (964)
Bore/Stroke: mm (in)	140 (5.5) / 171 (6.7)
Compression ratio:	15.9:1
Aspiration:	Turbocharged, AA Charge Cooled
Frequency:	60 Hz
Engine Speed:	1800 RPM
Gross Engine Power: kW (hp)	563 (755)
BMEP: kPA (psi)	2377 (345)
Piston Speed: m/sec (ft/sec)	10.3 (33.7)
Fuel Tank Capacity: Litres (US Gal)	863 (228)
Fuel Consump, P563P1: 1/hr (USg/hr)	117.6 (31.1)
Fuel Consump, P625E1: 1/hr (USg/hr)	133 (35.1)
Heat Rejection to Exhaust System: kW (Btu/min)	430 (24454)
Heat Rejection to Cooling System: kW (Btu/min)	183 (10401)
Total Radiated Heat: kW (Btu/min)	60.7 (3452)
Exhaust Temperature: °C (°F)	425 (797)
Radiator Cooling	
Air Flow: m ³ /min (cfm)	708 (25003)
Combustion Air Flow: m ³ /min (cfm)	44.8 (1582)
Exhaust Gas Flow: m ³ /min (cfm)	115 (4068)

Note: Standard reference conditions 27°C (80°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)
3828 (151)	1200 (47.2)	2175 (85.6)	3800 (8378)	3850 (8488)
Dry = With Lube Oil		Wet = With Lube Oil and Coolant		

Generating set pictured may include optional accessories



P563P1 – P625E1



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