

Output Ratings

Generating Set Model	P450P1	P500E1
380 – 415V, 50 Hz	450 kVA 360 kW	500 kVA 400 kW

Ratings at 0.8 pf

Ratings Definitions

Prime Power – Model P450P1

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 P500E1

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:	LL6014F
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:	50 Hz
Engine Speed:	1500 RPM
Gross Engine Power: kW (hp)	445 (597)
BMEP: kPA (psi)	2260 (328)
Piston Speed: m/sec (ft/sec)	8.55 (28.1)
Fuel Tank Capacity: Litres (US Gal)	863 (228)
Fuel Consump, P450P1: 1/hr (USg/hr)	95.8 (25.3)
Fuel Consump, P500E1: 1/hr (USg/hr)	106.1 (28.0)
Heat Rejection to Exhaust System: kW (Btu/min)	387.6 (22047)
Heat Rejection to Cooling System: kW (Btu/min)	165.3 (9402)
Total Radiated Heat: kW (Btu/min)	22.5 (1278)
Exhaust Temperature: °C (°F)	457 (855)
Radiator Cooling Air Flow: m ³ /min (cfm)	564 (19915)
Combustion Air Flow: m ³ /min (cfm)	38 (1342)
Exhaust Gas Flow: m ³ /min (cfm)	83 (2931)

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)
3700 (145.7)	1150 (45.3)	2197 (86.5)	3750 (8267)	3800 (8378)
Dry = With Lube Oil		Wet = With Lube Oil and Coolant		

Generating set pictured may include optional accessories



P450P1 – P500E1



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