

PH24E2S

Output Ratings

Generating Set Model	PH24E2S
220 - 240V, 50 Hz	24.0 kVA 24.0 kW

Ratings at unity pf

Ratings Definitions

Standby Power – Model PH24E2S

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:	404C-22G1
Alternator Model:	LLB1012N
Number of Cylinders:	4
Cubic Capacity: Litres (cu.in)	2.22 (135)
Bore/Stroke: mm (in)	84 (3.3) / 100 (3.9)
Compression ratio:	23.3:1
Aspiration:	Natural
Frequency:	50 Hz
Engine Speed:	3000 RPM
Gross Engine Power: kW (hp)	31.9 (42.8)
BMEP: kPA (psi)	518 (75.1)
Piston Speed: m/sec (ft/sec)	10.0 (32.8)
Fuel Tank Capacity: Litres (US Gal)	45 (11.9)
Fuel Consump, PH24E2S: 1/hr (USg/hr)	8.9 (2.4)
Heat Rejection to Exhaust System: kW (Btu/min)	24.2 (1377)
Heat Rejection to Cooling System: kW (Btu/min)	27.9 (1588)
Total Radiated Heat: kW (Btu/min)	6.3 (359)
Exhaust Temperature: °C (°F)	490 (914)
Radiator Cooling Air Flow: m³/min (cfm)	73.2 (2585)
Combustion Air Flow: m³/min (cfm)	2.89 (102)
Exhaust Gas Flow: m³/min (cfm)	7.73 (273)

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)	1258 (49.5)	TBA	TBA

Dry = With Lube Oil Wet= With Lube Oil and Coolant

Generating set pictured may include optional accessories



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