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Output Ratings

Generating Set Model	Prime	Standby
380-415V, 50Hz	16.5 kVA 13.2 kW	18.0 kVA 14.4 kW
220/127V, 60 Hz	19.4 kVA 15.5 kW	21.3 kVA 17.0 kW

Ratings at 0.8 power factor.

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 the 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 ISO 8528-3).

Technical Data

Engine Make & Model:	Perkins 404D-22G1	
Alternator Model:	LL1014L	
No. of Cylinders/Alignment:	4 / In Line	
Displacement: litres (cu.in)	2.2 (135.2)	
Bore/Stroke: mm (in)	84.0 (3.3)/100.0 (3.9)	
Compression Ratio:	23.3:1	
Induction:	Naturally Aspirated	
Frequency:	50 Hz	60 Hz
Engine Speed:	1500 RPM	1800 RPM
Gross Engine Power: kW (hp)	18.0 (24.0)	21.5 (29.0)
BMEP: kPa (psi)	649.0 (94.2)	647.0 (93.8)
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, Prime l/hr (USg/hr)	4.4 (1.2)	5.2 (1.4)
Fuel Consump, Standby l/hr (USg/hr)	4.8 (1.3)	5.7 (1.5)
Heat Rejected to Exhaust System: kW (Btu/min)	11.6 (660)	12.8 (728)
Heat Rejected to Water & Lube Oil: kW (Btu/min)	15.2 (864)	17.2 (978)
Heat Radiation to Room: kW (Btu/min)	3.1 (176)	3.2 (182)
Exhaust Gas Temperature: °C (°F)	394 (740)	434 (812)
Radiator Cooling Air Flow: m ³ /min (cfm)	33.0 (1165)	41.4 (1462)
Combustion Air Flow: m ³ /min (cfm)	1.5 (51)	1.7 (61)
Exhaust Gas Flow: m ³ /min (cfm)	3.7 (131)	4.0 (141)



Dimensions and Weights

Length: mm (in)	Width: mm (in)	Height: mm (in)	Dry: kg (lb)	Wet: kg (lb)
1320 (52.0)	552 (21.7)	1179 (46.4)	447 (985)	454 (1001)

Dry = With Lube Oil Wet = With Lube Oil and coolant

Ratings in accordance with ISO 8528, ISO 3046, IEC 60034, BS5000 and NEMA MG-1/22. Generating set pictured may include optional accessories.

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