

Output Ratings

Generating Set Model	J27	J30E
380 - 415V, 50 Hz	27.0 kVA 21.6 kW	30.0 kVA 24.0 kW

Ratings at 0.8 pf

Ratings Definitions

Prime Power - Model J27

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 J30E

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

Model:	J27 / J30E
Engine Model:	1103A-33G1
Alternator Model: FGW (Le Roy Somer)	LL1014Q (LSA 42.2M7)
Number of Cylinders:	3 in line
Displacement: Litres (Cu.in)	3.3 (201.4)
Bore/Stroke: mm (in)	105.0 (4.1) / 127.0 (5.0)
Compression Ratio:	19.25:1
Induction:	Naturally Aspirated
Frequency:	50Hz
Engine Speed:	1500 RPM
Maximum continuous Power at Flywheel: kW (hp)	31.0 (42.0)
BMEP: KPA (psi)	752.0 (109.0)
Piston Speed: m/sec (ft/sec)	6.40 (20.8)
Fuel Tank Capacity: Litres (US Gal)	144.0 (38.0)
Fuel Consump, J27: L/hr (Usg/hr)	6.2 (1.6)
Fuel Consump, J30E: L/hr (Usg/hr)	6.9 (1.8)
Heat Rejected to Exhaust System: kW (Btu/min)	22.3 (1268.0)
Heat Rejected to Water & Lube Oil: kW (Btu/min)	13.8 (785.0)
Heat Radiated to Room: kW (Btu/min)	8.6 (489.0)
Exhaust Gas Temperature: °C (°F)	472.0 (882.0)
Cooling Air Flow: m3/min (cfm)	69.6 (2458)
Combustion Air Flow: m3/min (cfm)	2.5 (88)
Exhaust Gas Flow: m3/min (cfm)	5.2 (184)

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)
1770 (69.7)	714 (28.1)	1368 (53.9)	780 (1720)	800 (1764)

Dry = With Lube Oil

Wet = With Lube Oil and Coolant

Generating set pictured may include optional accessories



J27/J30E



ISO 9001:2000