Output Ratings

Generating Set Model	GEMCO45	GEMCO50S
380-415V, 50 Hz	45.0 kVA 36.0 kW	50.0 kVA 40.2 kW

Ratings at 0.8 power factor

Ratings Definitions

Prime Power - Model GEMCO 45

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 hour.

Standby Power- Model GEMCO 50S

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 1103A-33TG1
Alternator	Alternator of UK origin
Number of Cylinder/Alignment:	3 in line
Displacement: litres (cu.in)	4.4 (268.5)
Bore/Stroke: mm (in)	105.0 (4.1)/127.0 (5.00)
Compression Ratio:	19.25:1
Induction:	Turbo Charged
Frequency:	50 Hz
Engine Speed:	1500 RPM
Gross Engine Power: kW (hp)	45.0 (60.0)
BMEP: kPa (psi)	818.0 (108.7)
Piston Speed: m/sec (ft/sec)	6.4 (20.8)
Fuel Tank Capacity: litres (US gal)	60 (15.8)
Fuel Consumption, 45 l/hr (USg/hr)	10.7 (2.8)
Fuel Consumption, 50**S** l/hr (USg/hr)	12 (3.2)
Heat Rejected to Exhaust System: kW (Btu/min)	38.0 (2161)
Heat Rejected to Water & Lube Oil: kW (Btu/min)	27.4 (1558)
Heat Radiation to Room: kW (Btu/min)	9.0 (512)
Exhaust Gas Temperature: °C (°F)	580 (1076)
Radiator Cooling Air Flow: m^3/min (cfm) Cooling system designed to operate in ambient conditions up to 50°C (122°F)	74.4 (2627)
Combustion Air Flow: m^3/min (cfm)	2.8 (99)
Exhaust Gas Flow: m^3/min (cfm)	7.7 (272)

Note: Standard reference conditions 27°C (80°F) Air Intel 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)
2150 (84.6)	752 (29.6)	1366 (53.8)	904 (1993)	917 (2022)

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

Ratings in accordance with ISO 8528, ISO 3046, IEC 60034, BSS5000 and NEMA MG-1/22
Generating set pictured may include optional accessories.

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GEMCO45/50S