

Output Ratings

Generating Set Model	P688ER2
380 – 415V, 50 Hz	-
480V, 60 Hz	688.0 kVA 550.4 kW
	Ratings at 0.8 pf

Ratings Definitions – P688ER2

Emergency Rating (Models with suffix "ER") - these ratings are applicable for supplying continuous electrical power (at variable load) in the event of a utility power failure, up to a maximum of 200 hours per year. No overload is permitted on these ratings. Exceeding 200 hours operation per year may result in a reduced product life.

Technical Data

Engine Model:	Perkins 2506C-E15TAG4	
Alternator Model:	LL6114G	
Number of Cylinders:	6 in line	
Displacement: litres (cu.in)	15.2 (927.6)	
Bore/Stroke: mm (in)	135.0 (5.3) / 167.0 (6.6)	
Compression ratio:	16.01:1	
Induction:	Turbocharged Air to Air Charge Cooled	
Frequency:	50 Hz	60 Hz
Engine Speed:	-	1800 RPM
Gross Engine Power: kW (hp)	-	609 (817)
BMEP: kPA (psi)	-	2831 (410.6)
Piston Speed: m/sec (ft/sec)	-	10.0 (32.8)
Fuel Tank Capacity: Litres (US gal)	-	928 (245.2)
Fuel Consump, P688ER2: l/hr (US g/hr)	-	151 (39.9)
Heat Rejected to Exhaust System: kW (Btu/min)	-	557.0 (31676)
Heat Rejected to Water & Lube Oil: kW (Btu/min)	-	211.0 (11999)
Heat Radiated to Room: kW (Btu/min)	-	116.0 (6597)
Exhaust Gas Temperature: °C (°F)	-	511 (952)
Radiator Cooling Air Flow: m ³ /min (cfm)	-	822.0 (29029)
Cooling system designed to operate in ambient conditions up to 50°C (122°F)*		
Combustion Air Flow: m ³ /min (cfm)	-	44.1 (1557)
Exhaust Gas Flow: m ³ /min (cfm)	-	105.3 (3719)

*Contact your local FG Wilson dealer for power ratings at specific site conditions.

Dimensions and Weights

Length: mm (in)	Width: mm (in)	Height: mm (in)	Dry: kg (lb)	Wet: kg (lb)
3700 (145.7)	1100 (43.3)	2143 (84.4)	3942 (8691)	3980 (8774)
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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P688ER2



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