



Power Solution

PL550



OUTPUT RATINGS

Generating Set Model - PL550	Prime Power	Standby Power
380 - 415V, 50 Hz / 1500 RPM	550.0 KVA	635.0 KVA
operating Temp 40 C	440.0 Kw	508.0 Kw
480 - 220 , 60 Hz / 1800 RPM	625.0 KVA	688.0 KVA
Operating Temp 40 C	500.0 Kw	550.0 Kw

RATINGS DEFINITIONS

Prime Power : Variable load Unlimited hours usage with an average load factory of 80% of the published prime power over each 24 hour period. A 10% overload is available for 1 hour in every 12 hours of operation.

Standby power: Variable load. Limited to 500 hours annual usage up to 300 hours of which may be continuous running. No overload is permitted.

TECHNICAL DATA: ENGINE

Engine Model:	Perkins 2806C - E18 TAG1
Number of Cylinders:	6 Vertical in-line
Displacement:	18.1 liters
Bore / Stroke: mm (in)	145 X 183 mm
Compression ratio:	14.5:1
Aspiration:	Turbo charger air to air charge cooled
Cycle:	4 Stroke
Combustion system	direct injection
Total Coolant Capacity:	61.0 liters
Total Lubrication System Capacity:	55.5 liters
Rotation:	Anti Clockwise
Cooling System:	Water - Cooled
Engine Speed:	1500 RPM
Gross Engine Power: Kw (hp)	483.0 (648.0)
Piston Speed: m/sec (ft/sec)	9.0 (29.5)
Fuel Tank Capacity: Liters (US Gal)	1350 (356.6)
Fuel Consump, Prime PL550: 1/h (Usg / hr)	108.0 (28.6)
Fuel Consump, Standby PL635: 1/hr (Usg/hr)	128.0 (33.8)

TECHNICAL DATA: ALTERNATOR

Alternator Model:	LEROY SOMER LSA - 47.2 M8
Insulation class:	H
Winding pitch:	2/3 (N °6) / 6 (N °6S)
Terminals:	12 (N °6) / 6 (N °6S)
Drip proof:	IP23
altitude:	≤ 1000 m
Overspeed:	2250 min ⁻¹
Air flow:	0.9 m ³ /s (50 Hz) 1.1 (60 Hz)
Excitation system	SHUNT (12 wire) AREP or PMG
A.V.R. Model:	R230 R448
Voltage regulation (*):	± 0.5% ± 0.5%
Sustained short-circuit current:	300% (3 IN):10s
Total harmonic TGH / THG (**)	at no load < 1.5% - on load < 2%
Waveform: NEMA = TIF	< 50 < 50
Wave from: I.E.C = THF	< 2% < 2%

Note: Derating may be required for conditions outside these; consult Perkins Engines Company Limited Generator powers are typical and are based on an average alternator efficiency and a power factor (Cos. φ) of 0.8

Fuel specification: BS 2869; part 2 1998 Class A2 or DIN EN 590

Lubricating oil: 15 W40 To API CG4

DIMENSIONS AND WEIGHTS

Length: mm (in)	Width: mm (in)	Height: mm (in)	Dry: Kg (lb)	Wet: Kg (lb)
4111 (161.9)	1536 (60.3)	2098 (82.5)	4655 (10263)	4725 (10417)

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