



# Power Solution

## PL635



### OUTPUT RATINGS

Generating Set Model - PL635	Prime Power	Standby Power
380 - 415V, 50 Hz / 1500 RPM	635.0 KVA	700.0 KVA
operating Temp 40 C	508.0 Kw	560.0 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 TAG2
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)	550.0 (738.0)
Piston Speed: m/sec (ft/sec)	9.0 (29.5)
Fuel Tank Capacity: Liters (US Gal)	1350 (357)
Fuel Consump, Prime PL635: 1/h (Usg / hr)	125.0 (33.02)
Fuel Consump, Standby PL700: 1/hr (Usg/hr)	141.0 (37.25)

### TECHNICAL DATA: ALTERNATOR

Alternator Model:	LEROY SOMER LSA - 49.1 S4
Insulation glass:	H
Winding pitch:	2/3 (N <sup>o</sup> 6)
Terminals:	6
Drip proof:	IP23
altitude:	≤ 1000 m
Overspeed:	2250 min <sup>-1</sup>
Air flow:	1.0 m <sup>3</sup> /s (50 Hz) 1.2 (60 Hz)
Excitation system	AREP or PMG
A.V.R. Model:	R448
Voltage regulation (*):	± 0.5%
Sustained short-circuit current:	300% (3 IN): 10s
Total harmonic TGH / THG (**)	at no load < 4% - on load < 4%
Waveform: NEMA = TIF	< 50
Wave from: I.E.C = THF	< 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 (162.0)	1536 (60.5)	2098 (83.0)	4800 (10282)	4870 (10736)

**Al-qaswaa group**  
for Power Generating & Heavy Equipment

Dubai, Al Murar, U.A.E.  
Tel: +971.4.2359499  
Fax: +971.4.2359799  
sales@alqaswaa.com  
www.alqaswaa.com