



TECHNICAL DATA

Model	C80 D5	Speed	1500 rpm
Set output	380 440 V 50 Hz	Alternator voltage regulation	±1.0%
Prime Rating	58 kW@ 72 kVA	Alternator insulation class	H
Standby Rating	64 kW@ 80 kVA	Fuel consumption (Prime)	15 l/hr
Engine Make	Cummins	Fuel consumption (Standby)	17 l/hr
Engine Model	4BTA3.9G1	Lubrication system oil capacity	10.9 Litres
Cylinders	Four	Base fuel tank capacity – open set	112 Litres
Engine build	In-line	Coolant capacity	17.9 Litres
Standard Governor/Class	Mechanical	Exhaust temp – prime	475°C
Aspiration and cooling	Turbocharged And Jacket Water Aftercooled	Exhaust gas flow – prime	166 l/s
Bore and stroke	102 mm x 120 mm	Exhaust gas back pressure max	76 mm Hg
Compression Ratio	16.5:1	Air flow – radiator*	1.71 m ³ /s
Cubic capacity	3.92 Litres	Air intake – engine (Prime)	68.9 Litre/s
Starting/Min °C	Unaided/-12°C	Minimum air opening to room	0.7 sq m
Battery capacity	100 A/hr	Minimum discharge opening	0.45 sq m
Gross Engine output – Prime	66kWm	Pusher fan head (duct allowance)*	13 mm Wg
Gross Engine output – Standby	73kWm	Heat radiated by eng (Prime)	12.6 kWm

PRIME POWER (PRP)

Prime power is available for an unlimited number of annual operating hours in variable load applications, in accordance with ISO8528-1.

A 10% overload capability is available for a period of 1 hour within a 12-hour period of operation, in accordance with ISO 3046-1.

STANDBY POWER RATING (ESR)

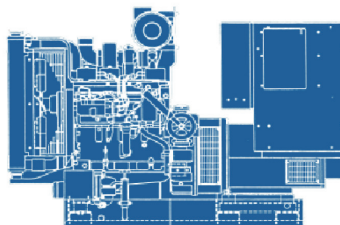
The Standby Power Rating is applicable for supplying emergency power for the duration of a utility power interruption. No overload, utility parallel or negotiated outage operation capability is available at this rating.

In installations served by unreliable utility sources (where outages last longer or occur more frequently), where operation is likely to exceed 200 hours per year, the prime power rating should be applied.

The Standby Power rating is only applicable for emergency and standby applications where the generator set serves as the back up to the normal utility source.

All ratings are based on the following reference conditions:

- Ambient temperature – 27°C



Dimensions and Weights

Model	Engine	Length (mm)	Width (mm)	Height (mm)	Set weight wet (Kg)	Set weight dry (Kg)	Enclosed Weight Wet (Kg)
C80 D5	4BTA3.9G1	1950	1046	1221	1050	1014	1690