



D80/S SPECIFICATIONS

100kVA

GENERAL

Model	D80/S
Power Type	Diesel
Prime Power (kW/kVA)	80/100
Standby Power (kW/kVA)	88/110

ENGINE

Engine Make and Model	DEUTZ BF4M1013EC
Engine Type	Water-cooled, in line, 4 stroke, 1500rpm
Engine Prime Power (kW)	92
Engine Standby Power (kW)	102
Fuel Tank Capacity (L)	422
Fuel Consumption (L/h)	19.9
Battery Type	Lead-acid, 2x12V-120AH
Bore (mm) x Stroke (mm)	108 x 130
Cylinder Number	4
Displacement (L)	4.76
Compression Ratio	19
Intake Mode	After-cooled, Turbo charged
Speed Control System	Mechanical Speed Governing
Lubricating System	Forced-feed Lubrication
Lubricating Oil Capacity (L)	11
Lub Consumption (g/kWh)	0.582

*Fuel Consumption is based on 100% load.

ALTERNATOR

Model	SLG274C1, single bearing IP22
Frequency (Hz)	50
Continuous Output (kW/kVA)	80/100
Power Efficiency	90.4%
Type	4 Pole, Rotating Field
Exciter Type	Brushless, Self excited
Voltage regulator	AS440
Voltage regulation	± 1.0%
Number of Phases	3 phases, 4 wire
Insulation	Class H
Protection	IP22
Rated Power Factor	0.8
Stator Winding	Double layer concentric
Winding Pitch	Two thirds
Winding Leads	12
Waveform Distortion	No load < 1.5%
Altitude (m)	1000

UNIT

Dimensions LxWxH (m)	3.2 x 1.1 x 1.7 G
Dry Weight (kg)	671
Sound at 7m/dB	78

STANDARD FEATURES

- Radiator is 50°C maximum and fans are driven by a belt with a safety guard charge alternator.
- Protective guarding on Deutz engine
- Water and oil heaters
- Dry type air filter, fuel filter, oil filter.
- Main line circuit breaker
- Powder coat finish (sand blasted and then powder coated)
- 12V batteries, rack and cable
- Flexible exhaust pipe to muffler.

SPECIAL FEATURES

- Fitted Sockets RCD Protectors:
 - 2 x 1Ph 15AMP 3P
 - 1 x 3Ph 32MP 5P
 - 1 x 3Ph 63MP 5P
- Bunded Base with drain valve
- IP66 rating
- Waterproof
- Dust proof electrical components



ASSEMBLY

The engine and alternator are closed coupled by means of an SAE flange. A full torsional analysis has been carried out to guarantee no harmful vibration will occur. Anti-vibration pads are affixed between engine alternator feet and the base frame. Rubber diagonal isolators are specially designed to reduce engine and alternator vibration and prevent distortion in the voltage and harmonic output of the generator. All iron and steel surfaces of canopy fabrications have been sand blasted and then powder coated, which provides an excellent corrosion resistance surface.

CONTROL SYSTEM

The DSE8610 is an easy to use multi-generator loadshare system, designed to synchronise up to 32 generators including electronic engines. The DSE8610 monitors the generator and indicates operational status and fault conditions, automatically starting or stopping the engine on load demand or fault condition. System alarms are annunciated on the LCD screen (multiple language options available), illuminated LED and audible sounder.)

DSE8610



The DSEWebNet Gateway is used in conjunction with supported DSE controllers to provide monitoring and communications data via the DSEWebNet advanced communications system.

Module 890



QUALITY STANDARDS

Our generator sets compliance with all main standards, such as ISO 8528, ISO14000, ISO3046, GB755, BS5000, VDE0530, ISO3046, IEC34-1

WARRANTY POLICY

12 months, 1200 hours as per generator.
Generators Australia Pty Ltd Warranty Policy.