

TECHNICAL SPECIFICATIONS FOR 15 KVA SOUND ATTENUATED D.G. SET

A) DIESEL ENGINE :

Cummins make Diesel engine, rated at 1500 RPM and conform to ISO 8528 specifications. The Engines are radiator cooled, four stroke, and multi cylinder, conforming to BS 5514/ISO 3046.

Sl. No.	DG Set Rating (KVA)	Engine Model	Engine H.P.	Aspiration
1.	15 KVA	X1.3TAAG1	23	TA

- Electrical starter motor 12 V DC.
- Battery charging alternator.
- Mechanical governor
- Spin –on Fuel filter
- Spin-on Full flow lube oil filter
- Residential Silencer
- Air cleaner (paper element type)
- Recovery bottle
- Safeties for LLOP/HWT
- Flywheel & Flywheel Housing
- First Fill of lube oil and coolant

B) ALTERNATOR :

Synchronous Alternator of **15 KVA** Stamford make, suitable for continuous operation at 1500 RPM, **230/415 Volts**, 0.8 pf(lag) suitable for 50 HZ, **1/3 phase**, 2/4 wire system conforming to BS 5000/IS 4722. The Alternator is brush less type, screen protected, revolving field, self excited, self regulated through an AVR. The Alternator has the following features:

- ± 1.0 % voltage regulation (max) in static conditions
- IP: 23 Enclosure
- Permissible overload 10% for one hour in 12 hrs. operation.

C) CONTROL PANEL :

The genset control panel is manufactured by Power Systems with 14/16 gauges CRCA sheet and powder coated for a weather-proof, long last finish. Control panel consist of followings parts:

- Standard Engine Instrumentation
- PSO 500 control panel which measures:
 - 1) Individual phase current (Amps)
 - 2) Phase voltage(V)
 - 3) Generator output frequency (Hz)
 - 4) Engine water temperature (Deg.C)
 - 5) Lube oil pressure (kpa)
 - 6) Working hours
- MCB of suitable rating
- Push button(Starter)
- LED indications for main functions
- Current transformers
- Instrument fuses duly wired and ferruled.

MOUNTING ARRANGEMENT:

Engine and Alternator are mounted on a common MS fabricated base frame with AVM pads.

D) FUEL TANK: Fuel Tank of 62 Ltrs and same shall be integrated in the base of Genset complete with drain valve, air vent and outlet connection.

E) BATTERY: One No. **CUMMINS PULSE** make battery of suitable capacity with its leads.

F) ACOUSTIC ENCLOSURE: CPCB APPROVED.