



## STANDARD SCOPE

**SUPERNOVA Genset, Model SP 1010**, powered by heavy duty Industrial, internal combustion Diesel Engine coupled with A.C. Generator, so as to generate 1010 KVA/808 KW 415 V, 3 Phase, 0.8 pf, 50 Hz at standard reference conditions & further as per following :-

### DIESEL ENGINE :

Imported, **PERKINS** 4-stroke, vertical In-Line, 8 (Eight) Cylinder, Water-Cooled, Turbocharged, Diesel Engine Model **4008 TAG2A** developing 1206 BHP at 1500 rpm prime-power rating as per ISO-3046, BS-5514 with a provision of 10% overload for 1 hour in any 12 hour running under std. reference conditions. Governing performance in accordance with class-A1 as per ISO-3046, BS-5514 and can be operated upto 1500 M. Altitude and 40 Deg.C. Ambient Air Temperature Without Any Deration.

**The Engine shall be complete with the following:**

- Lubrication System
- Fuel System
- Intake & Exhaust System
- Cooling System
- Starting System
- Switches & Sensors
- Engine Control Panel
- Instruments & Monitors
- Protections & Annunciations

Genset Model	<b>SP 1010</b>
Engine Model	4008 TAG2A
Type	4 STROKE, 1500 RPM
Cooling	Radiator Cooled.
No. of Cylinder & Arrangement	8 NOS. In-Line
Aspiration	Turbocharged After Cooled
Governing	Electronic
Bore x Stroke (mm x mm)	160 x 190
Compression Ratio	13.6: 1
Displacement (Ltr.)	30.561
Starting	24V DC Electric Starting
Battery	4 Nos. x 180 AH
Fuel Tank Capacity	990 Ltrs.
Sump Capacity	165.6 Ltrs.

### A.C.GENERATOR:

LEROY SOMER/EQUIVALENT make Industrial A.C.Generator, Brushless, synchronous, self excited, self regulated, Screen Protected Drip Proof, 1010 KVA/808 KW, 3 phase, 4 wire, 415V, 0.8 p.f., 1500 rpm, 50 Hz, Enclosure -

IP23, Class of Insulation 'H', Voltage regulation of (+/-)1%. It shall be Horizontal foot mounted double/single bearing type confirming to BS5000, IS4722.

#### **MOUNTING:**

The engine and A.C. Generator described above shall be directly coupled, aligned and mounted on rigid M.S. Fabricated Base Frame.

#### **CONTROL PANEL**

**The Control panel shall be designed fitted with Microprocessor based, State-of-art, latest technology 'D.G. Set -Controller' for complete control of DG Set which comprises of Control, Monitoring & Protection of Engine & Alternator.**

The Panel shall be fabricated from processed 16 gauges CRCA Sheet Metal, suitable for outdoor/ indoor application.

The panel shall be powder coated/ painted after the seven tank process of degreasing, de-rusting. The Doors and covers are provided with Neoprene Gasket to ensure dust & vermin proof as per IP 52. The gland plate/s is provided at bottom for termination of input and output Power / control Cable.

#### **Options :**

**AMF panel (Auto Start but without Change-over facility)**

**AMF - Auto Start, Auto change-over panel.**

**Auto Start, Auto Synchronizing, Auto load sharing panels.**

**Acoustic Enclosure.**

**Technical know-how for room acoustics.**

#### **PERIPHERALS:**

- M.S. Fabricated Fuel Storage Day Tank with Level Indicator ( 990Ltrs.)
- Heavy Duty Industrial Silencer
- Exhaust Flexible expansion Pipe
- Fuel Pre-filter with Element & Water Separator
- Dry Batteries with Leads.(Qty. 4 Nos., 180 AH)

#### **DOCUMENTS:**

- D.G.Set Test Certificate
- Engine/A.C. Generator
  - O & M Manuals
  - Parts Catalogue
- Alternator Test Certificate