

Diesel Generator Set Specification Sheet - 62.5 kVA

Generator Specifications	
Genset manufacturer	Greaves Power
Genset rating	Prime
Genset output (kVA/Kwe)	62.5/50
Genset Model	GPWII-PII-62.5
Engine rating (Max power @ rated RPM in KW(BHP))	59(80.2)
Engine model	3G11TAG25
Aspiration/Cooling	TCAC/Radiator
No. of cylinders/Cylinder arrangement	3/Inline
Displacement (L)	3.655
Bore x Stroke (mm)	108 x 133
Compression ratio	16.8
Rated RPM	1500
Governor: Type/Class of governing	Mech. / G2
Frequency regulation: No load to full load	Isochronous
Overspeed trip (RPM)	1650
Air cleaner type/Qty	Dry/01

Exhaust System	
Maximum allowable backpressure (Kpa)	4.5

Engine Electrical System	
Charging alternator voltage/current (DC)	12V/35A
Starter motor rated voltage (DC)	12
Battery voltage (DC)/Capacity (AH)/Qty	12/88/1

Fuel System	
Recommended fuel	HSD
Fuel tank capacity (L)	150

Fuel Consumption - LPH @ % Load	
100%	14.9
75%	11
50%	
25%	

Lubricating Oil System	
Lube oil sump capacity	8.5
Lube oil change period (Hours)	500
Lube oil consumption (% of SFC)	<0.2
Lube oil filter type/Qty	Spin on/01
Recommended lube oil grade	15W40 Greaves Maxtherm API C14
Oil cooler	Water cooled

Cooling System	
Max ambient capability (Deg C)	50
Coolant capacity (Engine+Radiator) (L)	20
Water pump type	Centrifugal, gear driven

Alternator Specifications	
Voltage (V)	380 - 440
Frequency (Hz)	50
Current @ 0.8 PF (Amps)	87
Type	4P, rotating field
Exciter type	Brushless (PMG optional)
Leads: Qty/Type	6 fixed Optional 12 reconnectable
Voltage regulator	Solid state
Insulation	Class H
Temperature rise (Deg C)	125
Bearing: Qty/Type	1, sealed
Coupling	Flex disc
Voltage regulation: No load to full load	2P sensing, ±1%
One step load acceptance	100% of rating
Unbalanced load capability	25% of rated current

Standard scope of supply:

Engine: Direct injection, water cooled, 3 cylinder, inline, 4 stroke, rated at 1500 RPM, conforming to ISO 3046 / BS 5514 has the following specifications:

- Mechanical FIP
- Electronic governor
- Turbocharger, pulse tuned exhaust manifold, stainless steel exhaust flexible connection
- Radiator Cooling, with turbocharged after cooling
- Plate type lube oil cooler
- Filter –fuel, lube oil
- Dry type replaceable paper element air cleaner
- Flywheel housing and flywheel to suit single bearing alternator
- Starting motor – Electric, battery charging alternator
- First fill of lube oil and coolant

Alternator: Crompton Greaves (optional-Stamford/equivalent)

- Brushless alternator
- Self-excited, self-regulated
- Class 'H' insulation limited to temperature rise of class H
- Salient pole revolving field
- Single bearing
- Automatic voltage regulator

Acoustic enclosure: Engine - alternator assembly mounted on AV mounts with silencer and S.S exhaust bellow suitably optimized to meet stringent noise emission standards as laid down by MOEF/CPCB

- Base rail with draw-out type fuel tank provided with drain plug, air Vent, inlet and outlet connections, level indicator, manhole etc
- Sub-base fuel tank with 11 hours capacity at 75% load
- 24 V dry batteries with connecting leads and terminals
- 90% gloss RAL9003 white pure polyester powder coated, base in black colour
- Water and lube oil drain outlets located on the outer surface- Leading to ease of maintenance and cleanliness.

Control panel: RAL 9003 White Powder coated control panel manufactured with CRCA sheet provided with

- MCCB of suitable rating with short circuit protection
- Controller with voltage, current, KW, PF, Frequency, KWh display
- Indicating lamps for "Load On" and "Set Running"
- Current transformers of suitable ratings
- Aluminum busbars of suitable capacity with incoming and outgoing terminations
- Control fuses duly wired and ferruled

Power cables: Uninyvin copper conductor cables between Alternator & Control panel inside the canopy

Literature:

- Operation Manual
- General maintenance & installation Guidelines
- Foundation Drawing
- Parts manual