

Diesel Generator Set Specifications Sheet- 3.5 kVA

Generator Specifications:	
Genset Rating	Prime Power
Genset Output (KVA / KW)	3.5 /2.8
Genset Model	GPA II – 3.5
Engine rating or Max. Power at rated RPM, in KW (BHP)	6.1 (8.3)
Engine Model	LDA 510 1B1(1510)
Engine Type	AIR COOLED
No. of Cylinders / Cylinder arrangement	Single
Displacement (L)	0.51
Bore & Stroke (mm)	85x90
Compression ratio	18:1
Rated RPM	3000
Governor: Type /Class of Governing	Mechanical
Over speed trip (rpm)	3200
Air cleaner type / Qty	Oil bath 01
Exhaust system	
Maximum allowable back pressure, kPa	4.5

Engine Electrical system: 50 Hz	
Static Battery Charger Volts / Current (DC)	12V / 10 Amps
Battery Voltage (DC) / Capacity (AH)	12 VDC / 35 AH

Lubricating Oil system :	
Lub oil sump capacity (L)	1.75
Oil change period (Hrs.)	300
Oil consumption (%SFC)	≤0.1
Recommended Oil Grade	Greaves Maxtherm API CF4

Fuel Consumption :	
@ 100 % Load (LPH)	1.5
@ 75 % Load (LPH)	1.3
@ 50 % Load (LPH)	1.2
@ 25 % Load (LPH)	1.0

Alternator Specification:	
Type	2 Pole , Rotating field
Exciter Type	Brushless
Voltage regulator	Capacitor
Insulation	Class H ,
Temperature rise	125 Deg. C
Bearing: Quantity , type	1, Sealed
Coupling	Conical Shaft, close coupled SAE J609B
Voltage regulation : No load to full load	+5%, -10%
One step load acceptance	100% of rating

Standard scope of supply:

Engine with direct injection, Air-cooled engine, Single cylinder, 4 stroke, rated at 3000RPM, conforming to **ISO 3046 / BS 5514** has the following specifications:

- Unit Injection Mechanical Pump
- Mechanical governor
- Air Cooled
- Filters - fuel, lube oil
- Oil Bath Air Filter
- Suitable for single bearing alternator
- Starting motor – Electric, Static Battery Charger
- First fill lube oil

Alternator: Linz/ Crompton/ NSM, brushless Capacitor alternator

- Self-excited, AVR/Capacitor-regulated
- Class 'H' insulation
- Salient pole revolving field
- Single bearing

Acoustic enclosure– Powder coated, weather proof Canopy. Engine alternator assembly mounted on AVM with Silencer and S.S exhaust bellow suitably optimized to meet stringent sound emission standards as laid down by MOEF / CPCB

- With High Quality Blower forced Ventilation.
- Base rail with draw-out type fuel tank is provided, air Vent, inlet and outlet connections, manhole etc.
- Sub-base fuel tank with 15 liters capacity.
- 12 V dry, batteries with connecting leads and terminals

Control panel: Powder coated control panel manufactured with CRCA sheet, Control panel having following features:

- MCB of suitable rating with **short circuit** protection
- Start arrangement - Push Button on Controller.
- Copper conductor cables between Alternator & Control panel.
- 3 Pin Socket for Easy Plug In.

Literature:

Operation Manual
General maintenance & installation Guideline
Foundation Drawing
Parts manual


Standard Warranty:

1.5 years (2000 hrs.) from the date of commissioning OR 2 year from the date of invoice Whichever Occurs First.

Greaves Power Advantages:

- Rugged & Low maintenance cost proven engine over decades.
- Easy availability Of Spare parts across country.
- Higher HP Engine for Better reliability.
- Better block Load capability.
- Extended warranty of 1.5 years.
- Liberal Design for Easy accessibility, maintenance & better Cooling.
- Silent Genset with Residential Type Silencer.
- Power Plug Socket for easy power at house hold application.

Generator Controller

CONTROLLER TYPE	FEATURES	DISPLAY PARAMETER	AUDIO VISUAL WARNING
DSE3110 -1Phase DSE4620 -3 Phase Control Unit 	Simple Controller user friendly	Low Engine Oil pressure indication at fault	Low Oil pressure
	Two Line LCD Display	High Oil temperature Indication at fault	High Coolant temperature
	The unique integrated DG set controller	Emergency Stop	Fault LED
	Incorporate engine & Alternator parameter	Battery voltage	Over/under speed
	Remote start	DG set Running Hours	
		Fault Display	

Optional Items:

Electrical Systems: Alternator Space Heater / Higher Rating Battery / Battery Charger / Battery Heater / Copper Bus Bar / Sealable kWh / Microprocessor Based AMF Controller / GPRS based Generator Monitoring System

Fuel System: Flexible Fuel Lines / SS fuel lines / Fuel Pressure Gauge

Enclosed Unit: Sound Enclosure – Super silent / External Lt. Fuel Tank
Miscellaneous: Air Cleaner (Heavy Duty)/Air Cleaner Restriction Indicator Digital

Typical Enclosed GENSET Dimensions & weight

Model	Rating	Length(mm)	Width(mm)	Height(mm)	Weight(kg)
GPAII-3.5	3.5	1110	750	800 without wheel 863 with wheel	290

