

Genset Specification	
Genset manufacturer	Greaves Cotton
Genset rating	Prime
Genset output (kVA / kWe)	3 / 2.4
Genset model	GPAII - 3E
Gross engine power (kWm)	6.1
Engine model	LDA 510 1B1
Aspiration / Cooling	Air Cooled
No. of cylinders / arrangement	1
Displacement (L)	0.51
Bore x Stroke (mm)	85 x 90
Compression ratio	18.1
Rated RPM	3000
Overspeed trip (RPM)	3200
Governor type / Class	Mech / G2
Frequency regulation	--
Air cleaner type / qty	Oil bath / 01

Exhaust System	
Max allowable backpressure (kPa)	4.5
Exhaust temperature (Deg C)	550
Silencer type	Critical

Engine Electrical System	
Charging alternator VDC / Amps	--
Starter motor rated voltage (DC)	12
Battery voltage (DC) / Capacity (AH)	12V / 35 AH

Fuel System	
Recommended fuel	IS 1460, HSD
Fuel tank capacity (L)	15

Fuel consumption @ % load (LPH)	
100%	1.5
75%	1.3


Lubricating Oil System	
Lube oil sump capacity (L)	1.25
Lube oil change period (Hours)	300
Lube oil consumption (% of SFC)	≤0.1%
Lube oil filter type / qty	Spin on / 01
Recommended lube oil grade	15W40, API CI4
Recommended lube oil	Greaves Maxtherm

Alternator Specification	
Voltage (1P / 3P)	230 / 415
Frequency (Hz)	50
Current (1P / 3P) (Amps)	13.04 / 4.17
Type	2P, rotating field
Voltage regulator	Automatic
Voltage regulation (%)	±1.5%
Insulation class	H
Temperature rise (Deg C)	125
Bearing (qty / type)	1, sealed
Coupling	Conical shaft
One step load acceptance	100% of rating
Unbalanced load capability	25% of rated amps

Standard Scope of Supply	
<p>Engine: Direct injection, air cooled, single cylinder, 4 stroke, rated at 3000 RPM, confirming to ISO 3046 / BS 5514 with the following:</p> <ul style="list-style-type: none"> -Unit injection mechanical pump -Mechanical governor -Exhaust manifold with SS exhaust flexible -Flywheel and flywheel housing -Fuel and lube oil filters -Oil bath air cleaner -Starter motor, battery charger -First fill of lube oil 	
<p>Alternator: NSM / Meccalte / Crompton Greaves / Stamford / Leroy Somer</p>	
<p>Acoustic Enclosure: Powder coated weather proof canopy. Engine and alternator mounted on AV mounts, with silencer and SS exhaust bellow optimised to meet stringent MOEF / CPCB norms for sound and emission</p> <ul style="list-style-type: none"> -High efficiency blower for forced ventilation -Integrated fuel tank with mechanical fuel gauge 	
<p>Control Panel: Fabricated from CRCA sheet and powder coated with RAL 9003 with the following:</p> <ul style="list-style-type: none"> -MCB of suitable rating with short circuit protection -Controller with multi feature display -3 pin socket for easy plug in -Copper conductor cables between alternator and control panel 	
<p>Literature:</p> <ul style="list-style-type: none"> -Operation and spare parts manual in CD format -Installation and general maintenance guidelines -Foundation drawing -Alternator and control panel wiring drawings -Test certificate 	
<p>Note: Specific fuel consumption is based on HSD complying to IS 1460 and tolerances with respect to ISO 3046</p>	

PRIME POWER RATING: Prime power ratings apply to installations where utility power is unavailable or unreliable. At varying load, the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour in twelve.

Genset Controller

Controller	Features	Display Parameters	Audio Visual Warning	Shutdown with Audio Visual Annunciation
<p>DSE 4522 Genset Controller</p> 	Compact and micro processor based fully configurable control unit	Engine oil pressure	Low oil pressure	Low oil pressure
	Graphic Display	Coolant temperature	High coolant temperature	High coolant temperature
	Unique integrated DG set controller	Fuel level indicator (%)	Low battery voltage	Engine overspeed
	Incorporates both, engine and alternator parameters in a single console	Battery voltage	Low fuel level	Engine underspeed
	Fully configurable digital output	Engine rpm		Low fuel level
	Controller with inbuilt RS 485 port	DG set running hours		Overload
	Remote start	Generator volts - Phase to neutral & Phase to phase		Over voltage
		Generator current (amps)		Under voltage
		Power factor		Over frequency
		KWHR		Under frequency
		KW		

Optional Items

Cooling system:

Cold start kit for -20 Deg C operations

Electrical systems:

Alternator Space Heater / Higher Rating Battery / Copper Bus Bar / Sealable kWh / Earth Fault Relay / Remote Annunciator / Remote monitoring / RTD / BTD / Temperature Scanner

AMF & Synchronizing System:

AMF panel / AMF with Auto-synch (Deep Sea / Woodward)

Open unit (for export):

Exhaust silencer-Hospital / Residential Grade, Stainless Steel flexible pipe

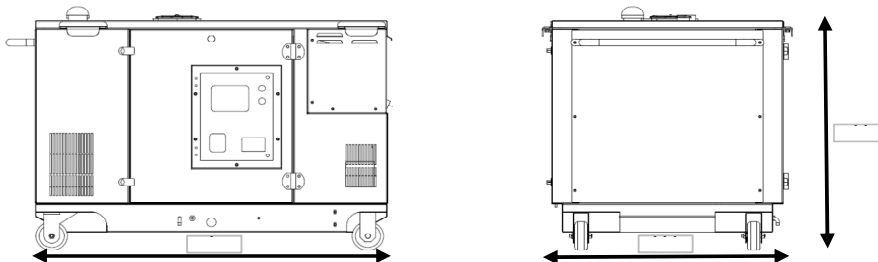
Fuel system:

Flexible Fuel Lines / SS fuel lines / Fuel Pressure Gauge / fuel flow meter

Miscellaneous:

Air Cleaner (Heavy Duty) / Air Cleaner Restriction Indicator
Digital / Closed crankcase ventilation

Typical Genset Dimensions and Weight



Model	Rating (kVA)	Length (mm)	Width (mm)	Height (mm)	Dry Weight (kg)
GP111-3E	3	1110	730	750	290
Note: Due to the process of continuous improvement, product specifications are subject to change					3E/03012020