

Genset Specification	
Genset manufacturer	Greaves Cotton
Genset rating	Prime
Genset output (kVA / kWe)	2000 / 1600
Genset model	GPW2000
Gross engine power (kWm)	1800
Engine model	16M33G2250/5
Aspiration / Cooling	TCAC
No. of cylinders / arrangement	16 / Vee
Displacement (L)	52.3
Bore x Stroke (mm)	150 x 185
Compression ratio	14
Rated RPM	1500
Overspeed trip (RPM)	1650
Governor type / Class	Elec / G3
Frequency regulation	Isochronous
Air cleaner type / qty	Dry / 02

Exhaust System	
Max allowable backpressure (kPa)	7.5
Exhaust temperature (Deg C)	550
Silencer type	Industrial

Engine Electrical System	
Charging alternator VDC / Amps	24V / 55 A
Starter motor rated voltage (DC)	24
Battery voltage (DC) / Capacity (AH)	24V / 220 AH x 2

Fuel System	
Recommended fuel	IS 1460, HSD
Fuel tank capacity (L)	990

Fuel consumption @ % load (LPH)	
100%	429.6
75%	313.6

Lubricating Oil System	
Lube oil sump capacity (L)	175
Lube oil change period (Hours)	500
Lube oil consumption (% of SFC)	≤0.1%
Lube oil filter type	Spin on
Recommended lube oil grade	15W40, API CI4
Recommended lube oil	Greaves Maxtherm

Alternator Specification	
Voltage (3P)	415
Frequency (Hz)	50
Current (Amps)	2780
Type	4P, rotating field
Voltage regulator	Solid state
Voltage regulation (%)	±1%
Insulation class	H
Temperature rise (Deg C)	125
Bearing (qty / type)	1, sealed
Coupling	Flex disc
One step load acceptance	100% of rating
Unbalanced load capability	25% of rated amps

Cooling System	
Max ambient capability (Deg C)	50
Coolant capacity	542

Standard Scope of Supply	
Engine: Direct injection, water cooled, twelve cylinder, 4 stroke, rated at 1500 RPM, conforming to ISO 3046 / BS 5514 with the following: -HEX cooling (Optional) -Electronic governor -Exhaust manifold with SS exhaust flexible -Flywheel and flywheel housing -Fuel and lube oil filters -Dry type air cleaner -Starter motor, battery charger	
Alternator: Leroy Somer/Stamford/ Crompton Greaves	
Acoustic Enclosure: Powder coated weather proof canopy. Engine and alternator mounted on AV mounts, with silencer and SS exhaust bellow -Baseraill and 990 liter fuel tank, drain plug, inlet and outlet connections, airvent, level gauge provisions	
Control Panel: Fabricated from CRCA sheet and powder coated with RAL 9003 with the following: -MCB of suitable rating with short circuit protection -Controller with multi feature display -Load on and set running indication lamps	
Literature: -Operation and spare parts manual in CD format -Installation and general maintenance guidelines -Foundation drawing -Alternator and control panel wiring drawings -GensetTest certificate	

Note: Specific fuel consumption is based on HSD complying to IS 1460 and tolerances with respect to ISO 3046

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
DSE 7320 - II Genset Controller 	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
	AMF ready	Generator current (amps)		Under voltage
		Power factor		Over frequency
		KWHR		Under frequency
		KW		High canopy temp

Optional Items

Electrical systems:

Alternator Space Heater / Copper Bus Bar / Sealable kWh / Earth Fault Relay / Remote monitoring / RTD/ BT D / 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

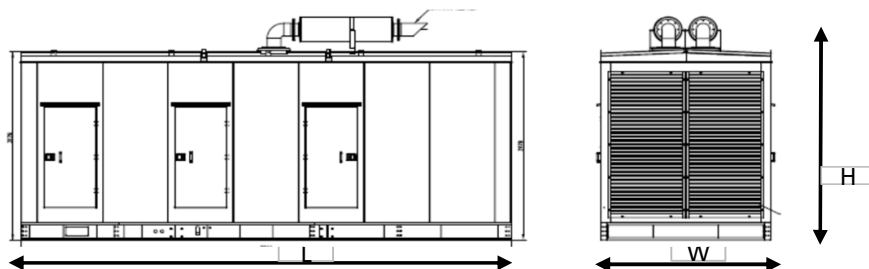
Fuel system:

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

Miscellaneous:

Air Cleaner (Heavy Duty) / Air Cleaner Restriction Indicator Digital

Typical Genset Dimensions and Weight (Approx)



Model	Rating (kVA)	Length (mm)	Width (mm)	Height (mm)	Dry Weight (kg)
GPW2000	2000	10000	3500	3500	17000
Note: Due to the process of continuous improvement, product specifications are subject to change. Image is purely for indicative purpose only					2000/160421