



## **Diesel Generator Set Specification Sheet - 200 kVA**

Generator Specifications				
Genset manufacturer	Greaves Power			
Genset rating Prime				
Genset output (kVA/Kwe)	200/160			
Genset Model	GPWII-PII-200			
Engine rating (Max power @ rated RPM in KW(BHP)	178.8(243.1)			
Engine model	6G11TAG29			
Aspiration/Cooling TCAC/Rad				
No. of cylinders/Cylinder arrangement	6/Inline			
Displacement (L)	7.31			
Bore x Stroke (mm)	108X133			
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)	5.5

Engine Electrical System				
12V/35A				
12				
12/120/1				

Fuel System				
Recommended fuel	HSD			
Fuel tank capacity (L)	360			

Fuel Consumption - LPH @ % Load			
100%	44.8		
75%	33		
50%			
25%			

Lubricating Oil System			
Lube oil sump capacity	17		
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 CI4		
Oil cooler	Water cooled		

Cooling System		
Max ambient capability (Deg C)	50	
Coolant capacity (Engine+Radiator) (L)	40	
Water pump type	Centrifugal,	
Trater barrie (Jee	gear driven	

Alternator Specifications				
Voltage (V)	380 - 440			
Frequency (Hz)	50			
Current @ 0.8 PF (Amps)	278			
Туре	4P, rotating field			
Exciter type	Brushless (PMG optional)			
Leads: Qty/Type 6 fixed Optional reconnect				
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 , 6 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





## Generator Controller (GCU 6120 - MK II)

Controller Type	Features	Display Parameters	Audio Visual Warning	Shutdown with Audio Visual Annunciation
	Compact and micro processor based fully configurable control unit	Engine oil pressure	Low oil pressure	Low oil pressure
	4 line LCD display	Coolant temperature	High coolant temperature	High coolant temperature
<u>GCU 6120 - MK II</u> Genset Controller	Unique integrated DG set controller	Fuel level indicator (%)	Low battery voltage	Engine overspeed
EE Saudo Estavas	Incorporates both, engine and alternator parameters in a single console	Battery voltage	Low fuel level	Engine underspeed
	Fully configurable digital output	Engine rpm		High canopy temperature
o o o o o	All configurable parameters with password protection	DG set running hours		Low fuel level
	AMF ready	Generator volts - Phase to neutral & Phase to phase		Over voltage
	Remote start	Generator current (amps)		Under voltage
		Power factor		Over frequency
		KWHR		Under frequency
		KW		Low coolant level

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

AMF & Synchronizing System: AMF panel / AMF with Auto-synchronization (Deep Sea / Woodward)

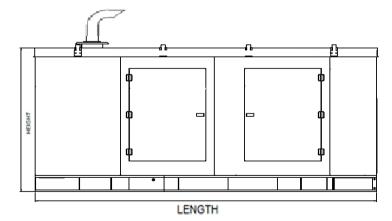
 Optional items:
 Open unit (for export): Exhaust silencer-Hospital/Residential Grade,

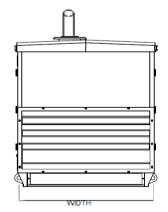
 Cooling system: Heater Kit for -20 Deg C Operation / Heater Kit for -30 Deg C
 Stainless Steel, flexible pipe.

Fuel system: Flexible Fuel Lines / SS fuel lines / Fuel Pressure Gauge/fuel Flow Meter

Enclosed unit: Acoustic Enclosure - Super silent / External 990 L Fuel Tank

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





Typical enclosed genset dimensions and weight					
Model	Rating (kVA)	Length (mm)	Width (mm)	Height (mm)	Dry Weight (kg)
GPWII-PII-200	200	4000	1600	1900	2300