





Diesel Generator Set Specifications Sheet- 15 kVA

Generator Specifications:			
Genset Manufacturer	Greaves Power		
Genset Rating	Prime Power		
Genset Output (KVA / KW)	15 / 12		
Genset Model	GPWII-PII-15		
Engine rating or Max. Power at rated RPM, in KW (BHP)	15.9 (21.6)		
Engine Model	G-15-II		
Engine Type	Natural Aspirated		
No. of Cylinders / Cylinder arrangement	2 / Inline		
Displacement (L)	1.56		
Bore & Stroke (mm)	95X110		
Compression ratio	17.5		
Rated RPM	1500		
Governor: Type /Class of Governing	Mechanical/G2		
Over speed trip (rpm)	1650		
Air cleaner type / Qty Dry / 01			
Exhaust system			
Maximum allowable back pressure, kPa	4		

Engine Electrical system: 50 Hz				
Charging alternator Voltage / Current (DC)	12V / 35Amps			
Starter Motor rated voltage (DC)	12			
Battery Voltage (DC) / Capacity (AH)	12V,88AH			

Fuel System:				
Recommended Fuel	HSD			
Fuel tank capacity (Ltr) 50				
Fuel consumption - LPH at % load				
100%	3.69			
75%	2.82			
50%	2.08			
25%	1.35			

Lubricating Oil system :		
Lube oil sump capacity	5.5	
Oil change period (Hrs)	500	
Oil consumption (% SEC)	0.1%	
Oil filter quantity (Nos) /type	01 / spin on type	
Recommended Oil Grade	1540 Greaves Maxtherm API CI4	
Oil Cooler	NA	

50
7.5 Ltr
Engine mounted

Alternator Specification:			
Voltage	380-440V		
Frequency	50Hz		
Current @ 0.8PF (Amps)	65.2/20.8		
Туре	4 Pole , Rotating field		
Exciter Type	Brushless		
	6, fixed.		
Leads: Quantity , type	12, re connectable		
	(Optional)		
Voltage regulator	Solid State		
Insulation	Class H ,		
Temperature rise	125 Deg. C (Class H)		
Bearing: Quantity , type	1,Sealed		
Coupling	Flexible disc, Close coupled		
Voltage regulation : No load to full load	2 Phase sensing,±1%		
One step load acceptance	100% of rating		
Unbalance load capability	25% of rated current		

Standard scope of supply:

Engine with direct injection, water-cooled engine, 2 cylinder, in-line, 4 stroke, rated at 1500RPM, conforming to **ISO 3046 / BS 5514** has the following specifications:

- Mechanical FIP
- Mechanical governor
- exhaust manifold, stainless steel exhaust flexible connection
- Radiator Cooled
- Filters 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 lube oil and coolant

Alternator: Crompton Greaves/(Optional- Stamford/equivalent)

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

Acoustic enclosure—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

- Base rail with draw-out type fuel tank is provided with a drain plug, air Vent inlet and outlet connections, level indicator, manhole etc.
- Sub-base fuel tank with 17 hour's capacity at 75% Load.
- 12 V dry, batteries with connecting leads and terminals
- --90% gloss RAL9003 white pure polyester powder coated, base in black colour.

Control panel: RAL 9003 white Powder coated control panel manufactured with

CRCA sheet provides:

- MCB of suitable rating with short circuit protection
 - Controller which displays voltage, current, KW, PF, Frequency, KWh.
 - Indicating lamps for "Load On" and "Set Running"
 - Current transformers of suitable ratings
 - Copper cables 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 Guideline
Foundation Drawing
Parts manual







Generator Controller (GCU ECON M)

CONTROLER TYPE	FEATURES	DISPLAY PARAMETER	AUDIO VISUAL WARNING	SHUT DOWN WITH AUDIO VISUAL ANNUNCIATION	
	Compact and microprocessor based fully configurable control Unit.	Engine Oil pressure	Low Oil pressure	Low Oil Pressure	
GCU ECON M for Genset Controller	Graphic display	Coolant temperature	High Coolant temperature	High Coolant temperature	
	The unique integrated DG set controller	Fuel level indication %	Low Battery Voltage	Engine Over speed	
	Incorporate both engine and alternator parameter in one console	Battery voltage	Low fuel Level	Engine underspend	
	Fully configurable digital out put	Engine rpm		Low Fuel	
	All parameter are settable and password protected	DG set Running Hours		Over load	
	Remote start	Generator Volts – Phase – Neutral & Phase - Phase		Under voltage	
		Generator Current (Amps)		Over voltage	
		Power factor		Over frequency	
		KWHR		Under frequency	
		KW			

Optional Items:

Cooling System: Heater Kit for -20 Deg. C Operation / Heater Kit for -30 deg.Cel

<u>Electrical Systems:</u> 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

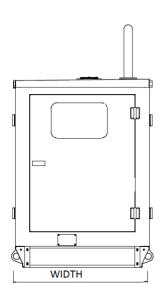
<u>AMF &Synchronizing System:</u> AMF panel / AMF with Auto-synchronization (Deep Sea / Woodward)

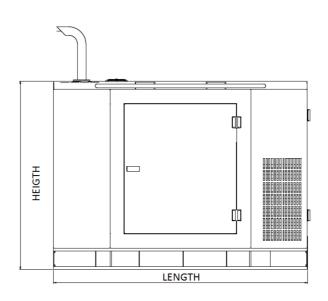
Open Unit (For Export) Exhaust Silencer - Hospital / Residential grade, stainless steel, flexible pipe.

<u>Fuel System:</u> Flexible Fuel Lines / SS fuel lines / Fuel Pressure Gauge/ Fuel Flow meter.

Enclosed Unit:-Sound Enclosure - Super silent / External 990 Lt. Fuel Tank

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





Typical Enclosed GENSET Dimensions& weight					
Model	Rating	Length(mm)	Width(mm)	Height(mm)	Weight(kg)
GPWII-PII-15	15	1800	950	1335	740





