



Technical Specification

Genset Model	PNG- 15-BG	PNG- 20-BG	PNG- 30-BG	PNG- 50-BG	PNG- 65-BG
Rated Power KVA (KW)	15 (12)	20 (16)	30 (24)	50 (42)	65 (52)
Rated Current (Amps/Ph)	21	28	42	70	90
Gas Consumption (Scum/hr) *					
Output of gas kW/M ³ hr**					
Dimensions L x W x H (cm)	140x70x125	161x70x125	200x70x125	210x80x135	250x80x135
Dry Weight (Kgs.)	725	900	1125	1250	1425
Engine Model	PN – 2-BG	PN – 3-BG	PN – 4-BG	PN – 4T-BG	PN – 6T-BG
Power at 1500 RPM (BHP)	22	30	42	63	94
No. of cylinders	2	3	4	4	6
Bore x Stroke (mm)	110 x 123	110 x 116	110 x 120	110 x 120	110 x 116
Swept Volume (Lts.)	2376	3307	4561	4561	6614
Aspiration	Natural	Natural	Natural	Turbo Charged	Turbo Charged
Lub Oil Sump Capacity	5	7.5	11	12	15
Governor	MICO RSV Class A-2 (Mechanical)				

ENGINE

PRAKASH water cooled, Spark Ignition, 4-Stroke, 1500 rpm continuous rating, heavy duty, multi-cylinder, Engine, Specially designed and engineered to operate with gases obtained from bio methane plants or gasifiers. A specially designed automatic air and fuel controller and mixing system is provided to take care of efficient, smooth working of engine from no load to full load. These engines operate smoothly at vast combinations of bio gases at negative suction up to 80 mm of water column hence root blower is not required and gases can be fed at normal available pressure. These are inclusive of the followings,

- 12 V Starter
- Radiator with Fan and water Pump
- Lub Oil Filter
- Flywheel suitable for Genset (Heavy)
- Battery Charging Alternator
- Air / gas mixture regulator
- Heavy Duty Air Filter
- Industrial Silencer
- Panel with Charging Ammeter, Oil Pressure gauge, water temperature gauge and starting switch

ALTERNATOR

PRAKASH highly efficient self Excited, Self Regulated, screen protected, drip proof, suitable for continuous operation ,1 or 3 Phase 230 / 415 Volts, 0.8 pf, 50 Hz, Class F insulation alternator confirming to IS:4722/IS:13364/BS:5000. Provided with IP 21 protection,10 % overloading and capability of starting the motors at 3 times the rated current of alternator.

MOUNTING FRAME

Engine and Alternator are mounted, coupled, aligned on a common rigid base frame, having provision for antivibration mounting and holes for safely lifting of complete D. G. Set.

CONTROL PANEL

A superior Quality control panel of suitable CRC sheet, powder coated for long life and better finish complete with followings,

- M.C.B./M.C.C.B.
- Voltmeter
- Ammeter
- Frequency Meter
- Lub Oil Filter
- Heavy Duty Air Filter
- Incoming / Outgoing terminals
- Phase Indicator Lamps
- Hour Meter

ACCESSORIE

- A.V.M. Pads
- Tool Kit
- Manuals and Drawings
- Battery leads

OPTIONAL

The following features can be provided on extra charges

- ▶ Auto Mains Failure System
- ▶ Safty Devices (Alarms/Auto)
- ▶ Single Phase Alternators
- ▶ Brushless Alternators
- ▶ Battery

NOTE

- ▶ Due to continuous developments the above specification are subjected to change without prior notice.
- ▶ For power de-ration due to changing composition of gases , altitude , temperature and inlet depration contact us.
- ▶ Maximum Hydrogen Sulfide(H₂S) not above 0.2 % , CO not above 20 % , CO₂ not above 15 % , maximum mosisture 8% ,minimum available methane 60 to 100 % .(Ratings provided at 80 % methane)
- ▶ The excess presence of non combustion able gases will reduce the power rating of the engine without any predetermination.