20 kVA CNG Generator Set

Simplified Technical Data Sheet | Model PLG-20GF | 50 Hz

PRIME

16 kW / 20 kVA

STANDBY 17.6 kW / 22 kVA

PRODUCT OVERVIEW



SILENT TYPE



SERVICE ACCESS

MAIN SPECIFICATIONS

Model	PLG-20GF	**Fuel**	CNG / natural gas
Prime power	16 kW / 20 kVA	**Standby power**	17.6 kW / 22 kVA
Rated voltage	400/230 V	**Rated current**	28.8 A
Frequency	50 Hz	**Rated speed**	1500 rpm
Power factor	0.8	**Configuration**	Silent (open type also listed)
Controller	SmartGen HGM6110N	**Speed governor**	Electronic

Rating basis: altitude below 1000 m and ambient temperature below 40 °C. Other voltages: 380/220 V, 415/240 V and 440/254 V on request. Confirm the listed 2.2 L engine displacement against the cylinder count and bore x stroke.

ENGINE AND ALTERNATOR

GAS ENGINE	
Model	Pulita / PW2.2NG
Configuration	Inline, 4-stroke, 4-cylinder
Bore x stroke	85 x 90 mm
Displacement	2.2 L
Aspiration	Turbocharged
Cooling	Closed-loop water cooling
Ignition	Spark ignition
Start method	24 V DC electric
Gas mixer	Pre-mix
Oil pressure	345-483 kPa
Oil temperature	<80 °C
Max. exhaust temp.	600 °C ±25 °C

ALTERNATOR	
Model	Pulita / FD1F
Rated output	16 kW / 20 kVA
Standby output	17.6 kW / 22 kVA
Connection	3-phase, 4-wire
Power factor	0.8
Excitation	Brushless
Voltage regulation	Automatic AVR
Insulation	Class H
Protection	IP23
Cooling	Air cooled

LOAD	GAS CONSUMPTION	OPERATING REQUIREMENTS
100% prime	4.8 m³/h	0.8-30 kPa gas pressure range. Pipeline feed: 2-5 kPa.
75% prime	3.8 m³/h	Methane >80%. Supply gas must be free of liquid water.
50% prime	2.7 m³/h	Humidity <60%. Suggested lubricating oil: 15W-40 CD/F.

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CONTROLLER AND PROTECTION

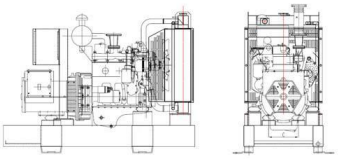


SmartGen HGM6110N
Starts and stops the generator remotely. Provides LCD monitoring, alarms and USB configuration.

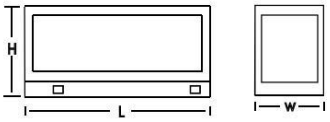
Protection functions
Monitors engine speed, oil pressure and coolant temperature, with generator electrical protection and start-failure alarms.

Controller functions: SmartGen HGM6100N series manual. Panel image is for reference.

DIMENSIONS AND CONFIGURATION



OPEN TYPE
1850 x 750 x 1250 mm
Gross weight: 750 kg



SILENT TYPE
2200 x 1050 x 1600 mm
Gross weight: 1000 kg
Canopy sound level: 70-75 dB*

Dimensions are listed as L x W x H. Confirm the final shipping dimensions. *Canopy sound level is listed without a measurement distance or test conditions.

STANDARD SUPPLY SCOPE

1. Gas engine
2. Brushless alternator with AVR
3. Digital controller and control cabinet
4. Steel base frame with vibration isolators
5. Gas pressure regulator
6. Ignition system
7. IMPCO air-fuel mixer
8. Electronic speed governor
9. Flame arrester
10. Explosion-protection system
11. MCCB, radiator fan, muffler and air filter
12. Two 12 V maintenance-free starting batteries
13. Installation accessories, toolkit and manuals

CNG ACCESSORIES AND OPTIONS

Soundproof canopy	Available with the silent configuration.
CNG cascade	500 SCM gas storage capacity.
CNG PRMS	Pressure regulating and metering station. Confirm the outlet pressure for the installation.

WARRANTY

15 months or 1500 operating hours from shipment, whichever comes first. Coverage applies to verified generator set defects and excludes natural disasters, transport or handling damage, improper operation and other external causes. We supply covered spare parts free of charge. After the warranty period, spare parts are available at cost.

Confirm technical data and supplied equipment in the final order documents.