150 kVA CNG Generator Set

Simplified Technical Data Sheet | Model PLT-150GF | 50 Hz

PRIME

120 kW / 150 kVA

STANDBY 132 kW / 165 kVA

PRODUCT OVERVIEW



OPEN TYPE



SILENT TYPE

MAIN SPECIFICATIONS

Model	PLT-150GF	**Fuel**	CNG / natural gas
Prime power	120 kW / 150 kVA	**Standby power**	132 kW / 165 kVA
Rated voltage	400/230 V	**Rated current**	216 A
Frequency	50 Hz	**Rated speed**	1500 rpm
Power factor	0.8	**Configuration**	Open, silent or containerized
Controller	SmartGen HGM6120N	**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.

ENGINE AND ALTERNATOR

GAS ENGINE	
Model	Pulita / PC8.3NG
Engine rated power	140 kW
Configuration	Inline, 4-stroke, 6-cylinder
Bore x stroke	114 x 135 mm
Displacement	8.3 L
Compression ratio	11:1
Aspiration	Turbocharged
Cooling	Closed-loop water cooling
Start method	24 V DC electric
Gas mixer	Pre-mix
Oil pressure / temp.	345-483 kPa / <80 °C
Max. exhaust temp.	580 °C

ALTERNATOR	
Model	Pulita / FD3ES
Rated output	120 kW / 150 kVA
Standby output	132 kW / 165 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	36 m³/h	0.8-30 kPa gas pressure range. Regulated supply: 20 kPa with a pressure regulating and metering station (PRMS).
75% prime	28 m³/h	Methane >80%. Supply gas must be free of liquid water.
50% prime	20 m³/h	Humidity <60%. Suggested lubricating oil: 15W-40 CD/F.

Listed specific gas consumption: ≤0.3 m³/kWh.

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CONTROLLER AND PROTECTION

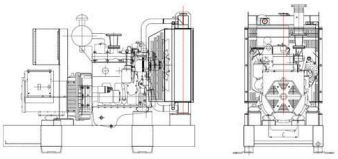


SmartGen HGM6120N
Starts and stops the generator remotely. Provides LCD monitoring, alarms and USB configuration. Monitors mains power and supports automatic mains failure (AMF) transfer control.

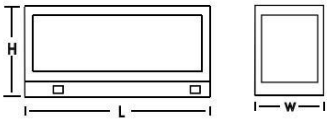
Protection functions
Monitors engine speed, oil pressure and coolant temperature, with generator electrical protection and start-failure alarms.

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

DIMENSIONS AND CONFIGURATION



OPEN TYPE
2400 x 1150 x 1400 mm
Gross weight: 1800 kg



SILENT TYPE
3000 x 1150 x 1900 mm
Gross weight: 1700 kg
Canopy sound level: 70-75 dB*
Canopy included with silent type

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. Confirm shipping weights. The listed silent unit weighs 100 kg less than the listed open unit.

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

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.