100 kVA CNG Generator Set

Simplified Technical Data Sheet | Model PLT-100GF | 50 Hz

PRIME

80 kW / 100 kVA

STANDBY 88 kW / 110 kVA

PRODUCT OVERVIEW



OPEN TYPE



SILENT TYPE

MAIN SPECIFICATIONS

Model	PLT-100GF	**Fuel**	CNG / natural gas
Prime power	80 kW / 100 kVA	**Standby power**	88 kW / 110 kVA
Rated voltage	400/230 V	**Rated current**	144 A
Frequency	50 Hz	**Rated speed**	1500 rpm
Power factor	0.8	**Configuration**	Open or silent
Controller	SmartGen HGM6110 AMF	**Speed governor**	Electronic

Rating basis: altitude below 1000 m and ambient temperature below 40 C. Standard voltage shown above; 380/220 V, 415/240 V and 440/254 V are available on request.

ENGINE AND ALTERNATOR

GAS ENGINE

Model	Pulita Cummins Series / PC5.9NG
Configuration	Inline, 4-stroke, 6-cylinder
Bore x stroke	105 x 120 mm
Displacement	5.9 L
Compression ratio	11:1
Aspiration	Turbocharged
Cooling	Closed-water cooling
Start method	Electric
Gas mixer	Pre-mix
Oil pressure	345-483 kPa
Oil temperature	<80 C
Max. exhaust temperature	580 C

ALTERNATOR

Model	Pulita / FD3A
Rated output	80 kW / 100 kVA
Standby output	88 kW / 110 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	24.0 m^3/h	Supply pressure: 2-20 kPa
75% prime	18.5 m^3/h	Methane content: >80% CH4
50% prime	13.8 m^3/h	Humidity: <60%; oil: 15W-40 CD/F

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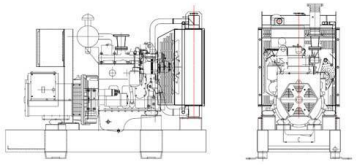
CONTROLLER AND PROTECTION

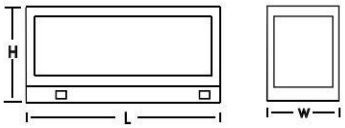


SmartGen HGM6110 AMF controller
Displays frequency, voltage, current, power output, oil pressure, oil temperature and coolant temperature.

Protection functions
Overspeed shutdown; low oil-pressure shutdown; high coolant-temperature shutdown; overload shutdown; charger-failure alarm; start-failure alarm.

DIMENSIONS AND CONFIGURATION





OPEN TYPE
2400 x 1100 x 1550 mm
Gross weight: 1430 kg

SILENT TYPE
2800 x 1200 x 1750 mm
Gross weight: 1850 kg
Optional canopy: approx. 75 dB(A)*

*Sound level is stated in the source document; measurement distance and test conditions were not specified. Dimensions are approximate and subject to final manufacturing confirmation.

STANDARD SUPPLY SCOPE

1. High-performance 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. Advanced 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 batteries
13. Installation accessories, toolkit and manuals

WARRANTY

15 months or 1500 running hours from shipment, whichever occurs first. Coverage applies to verified genset defects and excludes natural disasters, transport or handling damage, incorrect operation and other external causes. Covered spare parts are supplied without charge during the warranty period; post-warranty spare parts are available at cost.

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