



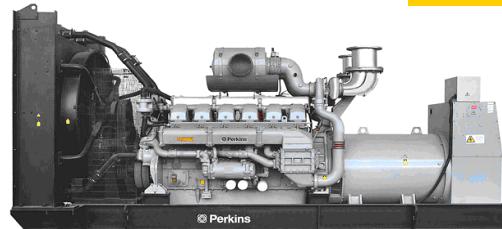
## DATA SHEET

DIESEL GENERATOR 100KVA

MODEL#HDC-100G2

50HZ/1500RPM

MODEL:6BTA5.9-G2



### General Features:

- All qualified generator sets are subjected to a comprehensive performance test which includes 50% load, 70% load, 100% load, 110% load and to check, verify that all control systems, alarm and shut-down protection.
- Equipped with battery charger and 24V high performance maintenance-free lead-acid starting batteries and connecting cables.
- Stainless galvanized zinc plates with strong corrosion-proof.
- Vibration isolators between the engine/alternator and base frame.
- Equipped with industrial silencer and flexible exhaust hose.
- **Designed to comply with ISO8528/GB2820.**
- Powered by Perkins engine and coupled with Stamford alternator.
- Water jacket preheater, oil heater and double air cleaner, etc. are available.

### HDPG Diesel Generator Set Data

Genset Model	HDC-100G2
Prime Power	80KW/100KVA
Standby Power	88KW/110KVA
Output Frequency / Rated speed	50Hz/1500rpm
Rated Voltage	230V/400V

Engine Make	Cummins
Engine Model	6BTA5.9-G2
Alternator model	Stamford UCI274E
Control System	DSE4520
Phase	Three

(1) **Prime power:** The rating is available for an unlimited of annual operating hours in variable load applications, in accordance with ISO8528-1.A 10% overload is available for a period of 1 hour within 12-hour period of operation, in accordance with ISO 3046-1.

(2) **Standby power:** The rating is applicable for supplying emergency power in variable load applications for up to 200 hours per year in accordance with ISO8528-1. Overload is not allowed.

(3) **Rated voltage:** available with customer requirement.

### Engine Specifications (DETAILED in APPENDIX)

Engine Model	6BTA5.9-G2
Engine Manufacturer	Cummins
Cylinder quantity	6
Cylinder Arrangement	In-line
Cycle	
Aspiration	Turbo charged

Bore x Stroke (mm x mm)	102 mm x 120 mm
Displacement	5.9L
Compression Ratio	18.23:1
Prime power / Speed (KW/RPM)	93.6kw/1500
Standby power/ Speed (KW/RPM)	103kw/1500
Governor type	LCS Electric



ISO9001:2015

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Piston Speed	N.A.	Fuel Consumption at 100% load	22.6L
Typical genset electrical output (0,8 pf 25°C)	81.4kw	(L/HOUR)	
Total Lubrication System Capacity (L)	8.0	Starter motor	12V/24V options
Total Coolant Capacity (L)	12.6	Alternator	12V/24V options
		Minimum cranking speed.	80rpm

### Alternator Specifications

Alternator model	UCI274E	Number of phases	3
Alternator manufacturer	Stamford	Rated voltage	400V
Exciter type	Single bearing, Brushless, Self-excited	Power factor	0.8
Rated output prime power	100KVA	Voltage regulation NL-FL	≤±1%
Rated speed	1500 rpm	Insulation grade	H
Rated frequency	50Hz	Protection grade	IP23

**Alternator option: Stamford, MECC, Marathon, Engga, Faraday**

### Control System DSE4520 (DETAILED in INSTRUCTION)

DSE4520 is an advanced control module based on micro-processor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, breaker control and automatically start the engine when the mains are abnormal. Accurately measure various operational parameters and display all values and alarms information on the LCD. In addition, the control module can automatically shut down the engine and indicate the engine failure.

#### FEATURES

- ◆ Microprocessor control, with high stability and credibility.
- ◆ Monitoring and measuring operational parameters of the mains supply and genset.
- ◆ Indicating operation status, fault conditions, all parameters and alarms.
- ◆ Multiple protections; multiple parameters display, like pressure, temp. etc.
- ◆ Manual, automatic and remote work mode selectable.
- ◆ Real time clock for time and date display, overall runtime display, 250 log entries.
- ◆ Overall power output display.
- ◆ Integral speed/frequency detecting, telling status of start, rated operation, overspeed etc.
- ◆ Communication with PC via RS485 OR RS232 interface, using MODBUS protocol.

### Soundproof Enclosure Specification

HDPG silent generator is designed by professional acoustic engineers based on years of experience. Now we can make the noise of the generator less than 80-85dB(A) at 1m, or 70-75dB(A) at 7m, 60-65dB(A) at 15m.

#### FEATURES

- ◆ Multi-way air intake and exhaust guarantee the power performance of the generator.
- ◆ Large-scale impedance combined type silencer effectively reduces noise of the generator.
- ◆ Internal high performance rubber damper and flexible materials reduce vibration.
- ◆ Base mounted fuel tank supports the generator running for 8 hours.



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# **HYPER DYN** POWER SOLUTIONS

## POWER GENERATOR MANUFACTURES

Grugaplatz 2-4, 45131 Essen, Germany

Since 1990



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We follow International Environment Protections Standards Worldwide,  
United Nations Environment Programme (UNEP);  
European Environment Agency (EEA);  
Partnerships in Environmental Management for the Seas of East Asia (PEMSEA)



HAMANN AG

### **Sound level**

Overall sound pressure level (cooling pack and air cleaner fitted):

- at 1500 rev/min .....	75 dBA
- at 1800 rev/min .....	85 dBA

### **Exhaust system**

Maximum back pressure

- 1500 rev/min .....	10 kPa
- 1800 rev/min .....	15 kPa

Exhaust outlet size .....

56 mm (2.2 in)

Emission Standards: Meets Tier 2 or Tier 3 EPA emissions standards