

100KVA CUMMINS DIESEL GENERATOR UC100GFS

Standby Power(50HZ)	88KW/110KVA
Prime Power(50HZ)	80KW/100KVA

Standard Features

General Features

- Engine(Cummins 6BT5.9-G2)
- Radiator 50°C max, fans are driven by belt
- Air filter, fuel filter, oil filter installed
- 24V starter and charge alternator
- Brushless alternator (274C), single bearing
- Silent canopy
- Base frame with 8hrs base fuel tank
- Absorbers installed
- Control panel with HGM6120 controller
- Circuit breaker
- Free maintenance batteries, rack and cable
- Ripple flex exhaust pipe, bellows, flange, muffler.
- User manual, test report, etc



Generator Ratings

Voltage	HZ	Phase	P.F	Standby/Prime Amps	Standby Rating (KVA)	Prime Ratings (KVA)
400/230V	50	3	0.8	158.4/144	110	100

Prime power (PRP): Prime power is available for an unlimited number of annual hours in available load application, in according with GB/T2820-97(EQVLso8528); A 10% overload capability is available for a period of 1 hour within a 12-hour period of operation.

Standby power Rating (ESP) ; The standby power rating is application for supplying emergency power for the duration of a utility power interruption. No overload, utility parallel or negotiated outage operation capability is available at this rating.

Sales Promises

We provide a full line of brand new and high quality products. Each and every unit is strictly on load test before delivery. Warranty is according to our standard conditions: 12 months or 1500 running hour's, subject to the earlier one. Service and parts are available from our factory or distribution in your location.

ENGINE DATA

Manufacturer /Model	Cummins / 6BT5.9-G2
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Air intake System	Turbocharged
Fuel System	BYC A/Electronic Governor
Cylinder Arrangement	6 in LINE
Displacement	5.88L
Bore and Stroke	102*120 (MM)
Compression Ratio	17.3:1
Rated RPM	1500rpm
Prime power at rated RPM	86KW
Max standby Power at Rated RPM	94.6KW
Governor Type	Electronic
Oil capacity	16.4L
Fuel consumption @ 100% load	18.7L/hr

ALTERNATOR SPECIFICATION

General data

Compliance with GB755, BS5000, VDE0530, NEMAMG1-22, IED34-1, CSA22.2 and AS1359 standards.

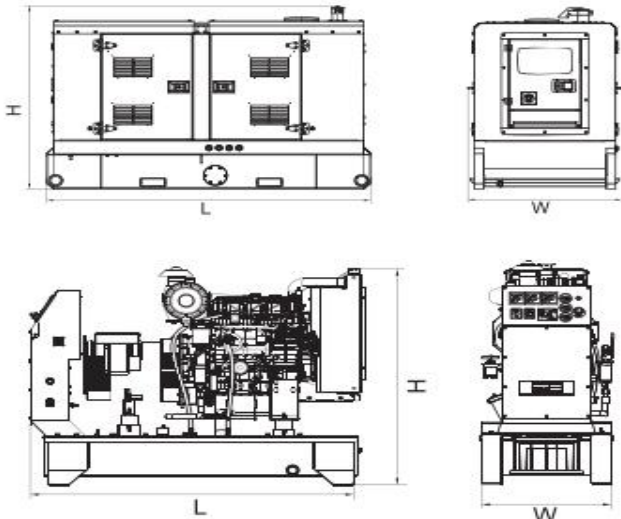
Alternator Data

Manufacture /Type	STAMFORD TECHNOLOGY ALTERNATOR/ 274C
Number of Phase	three
Connecting Type	3 Phase and 4 wire
Number of Bearing	one
Power Factor	0.8
Protection Grade	IP23
Altitude	≤1000m
Exciter Type	Brush less, self-exciting
Insulation Class, Temperature Rise	H/H
Alternator Capacity	100KVA

GENERATING SET DATA

Voltage Regulation	≥±5%
Voltage Regulation, Stead State	≤±1%
Sudden Voltage Warp (100% Sudden Reduce)	≤+25%
Sudden Voltage Warp (sudden Increase)	≤-20%
Voltage Stable Time (100% sudden Reduce)	≤6s
Voltage Stable Time (Sudden Increase)	≤6s
Frequency Reduce	≤5% adjustable
Frequency Regulation, Stead State	≤1.5%
Frequency waving	≤0.8 %
Sudden Frequency Warp (100% Sudden Reduce)	≤+12%
Sudden Frequency Warp (Sudden Increase)	≤-10%
Frequency Recovery Time (100% sudden Reduce)	≤5s
Frequency Recovery Time (Sudden Increase)	≤5s

Dimension & Weight

	<p>Open frame type (L W H):</p> <p>Overall Size: 2350x950x1600mm</p> <p>Weight: 1350 kgs</p> <p>Silent type (L W H):</p> <p>Overall Size: 2900x1050x1750 mm</p> <p>Weight: 1650 kgs</p>
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Options

Type	Fuel System	Control System
<ul style="list-style-type: none"> ● Rainproof Type ● Soundproof Type ● Trailer Type 	<ul style="list-style-type: none"> ● Daily Fuel Tank ● Base Fuel Tank 	<ul style="list-style-type: none"> ● Auto Control Panel ● Remote Control Panel ● Auto Transfer Switch (ATS)

Basic Control Panel




Standard Control Panel is the basic configuration for normal operation and usage. It is of some advantage such as easy to operate various function and well protection. Operative buttons such as Turn On, Per-heart. Starting, Stop (Emergency Stop) on the panel .while malfunction occurs, control panel will stop the generator and also alarm with light or buzz.

Auto Control Panel

 HGM410	 HGM6120	 DSE6120	 DSE7320	<p>Automatic Control Panel is the basic configuration for nobody on duty controlling generator.</p> <p>HGM6120 controller, integrating digital, intelligent and network techniques, is used for automatic control and monitoring system of genset. It can carry out functions of automatic start/stop, data measurement, alarm protection and three “remote” (remote control, remote measure and remote communication). The controller uses LCD display, optional display interface in many different languages with easy and reliable operation.</p> <p>Alarms:</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Over and Under Speed <input checked="" type="checkbox"/> Low and High Battery Volt. <input checked="" type="checkbox"/> Start and Stop Failure <input checked="" type="checkbox"/> Charge fail <input checked="" type="checkbox"/> Over Current <input checked="" type="checkbox"/> Under / Over Generator Voltage <input checked="" type="checkbox"/> Low Oil Pressure <input checked="" type="checkbox"/> High engine temperature <p>Metering via LED display:</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Generator Volts(V), Ampere(A), Frequency(HZ), POWER(KW) Cos (σ) <input checked="" type="checkbox"/> Mains Volts(V), Frequency(HZ) <input checked="" type="checkbox"/> Engine temperature (°C & °F) <input checked="" type="checkbox"/> Lub. Oil pressure kpa/psi/bar <input checked="" type="checkbox"/> Engine speed r/min(r/min) <input checked="" type="checkbox"/> Battery volts <input checked="" type="checkbox"/> Charging alternator volts <input checked="" type="checkbox"/> Engine hours run
				

Silent canopy feature

	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Silent / weatherproof steel enclosure treated with polyester powder coated. <input checked="" type="checkbox"/> Large residential muffler for silent operation. <input checked="" type="checkbox"/> Black-finish stainless steel locks and hinges for maximum weather protection. <input checked="" type="checkbox"/> Integrated steel base tank with polyester powder coated/ painting. <input checked="" type="checkbox"/> Control panel viewing window including security access doors. <input checked="" type="checkbox"/> Large access doors for easy maintenance, operation and repairs. <input checked="" type="checkbox"/> Emergency stop push button mounted on enclosure exterior
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