



## Diesel Generating Set

SC68GF

MODEL	SC68GF
Standby Power(60HZ)	75KW/93.5KVA
Prime Power(60HZ)	68KW/85KVA

<p><b>General Features</b></p> <ul style="list-style-type: none"> <li>Engine(CUMMIN S, 6BT5.9-G1)</li> <li>Radiator 40°C max, fans are driven by belt ,with safety guard</li> <li>24V charge alternator</li> <li>Alternator (SUPERMALY 224F), single bearing alternator IP23, insulation class H/H</li> <li>Absorber</li> <li>Dry type air filter ,fuel filter ,oil filter</li> <li>Main line circuit breaker</li> <li>Standard control panel</li> <li>12V batteries ,rack and cable</li> <li>Ripple flex exhaust pipe ,exhaust siphon flange ,muffler.</li> <li>User manual</li> </ul>	
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### Generator Ratings

voltage	HZ	phase	P.F	Standby/Prime Amps	Stand by Rating (KVA) (KW/KVA)	Prime Ratings (KW/KVA)
220	60	3	0.8	246/223	75/93.5	68/85

**Prime power (PRP):** Prime power is available for an unlimited number of annual hours in available load application , in according with GB/T2820-97(EQVLS08528); 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

Provides a full line of brand new and high quality products .Each and every unit is strictly factory tested. Warranty is according to our standard conditions: 12 months or 1000 running hour's .subject to the earlier one. Service and parts are available from our factory or distribution in your location.

### ENGINE DATA



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Manufacturer /Model:	CUMMIN S 6BT5.9-G1, 4-CYLIN DER
Air intake System:	Turbocharged, After Cooled
Fuel System :	A/AD type fuel pump
Cylinder Arrangement:	in line
Displacement :	5.9L
Bore and Stroke:	102*120 (MM)
Compression Ratio:	17.5: 1
Rated RPM:	1800rpm
Max standby Power at Rated RPM:	110KW
Governor Type:	Mechanical governor
Frequency Regulation ,Steady State :	<0.25%

### Exhaust System

Exhaust Gas Flow:	18.5 m <sup>3</sup> /min
Exhaust Temperature:	565°C
Max Back Pressure:	10 KPa

### Air Intake System

Max Intake Restriction:	6.35 kPa
Burning Capacity:	7.1 m <sup>3</sup> /min
Intake Flow:	174 m <sup>3</sup> /min

### Fuel System

100 %( Prime Power) Load:	214 g/kW*h
75%( Prime Power) Load:	216 g/kW*h
50%( Prime Power) Load:	217 g/kW*h

### Oil System

Total Oil Capacity:	16.4L
Oil Consumption:	≤4g/kWh
Oil Pressure at Rated RPM:	345KPa

### Cooling System

Total Coolant Capacity:	27 L
Thermostat:	82-95°C
Max Water Temperature:	104°C



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### Emissions

No x:	TBA
CO:	TBA
SOOR:	TBA
HC:	TBA

### ALTERNATOR SPECIFICATION

#### GENERAL DATA

#### Alternator Data

<b>Manufacture /Type:</b>	<b>SUPERMALY 224F</b>
<b>Number of Phase:</b>	<b>three</b>
<b>Connecting Type:</b>	<b>3Phase and 4 wire</b>
<b>Number of Bearing:</b>	<b>one</b>
<b>Power Factor:</b>	<b>0.8</b>
<b>Protection Grade:</b>	<b>IP23</b>
<b>Altitude:</b>	<b>&lt;1000m</b>
<b>Exciter Type:</b>	<b>Brush less, self-exciting</b>
<b>Insulation Class, Temperature Rise:</b>	<b>H/H</b>
<b>Telephone Influence Factor (TIF):</b>	<b>&lt; 50</b>
<b>THF:</b>	<b>&lt;2%</b>
<b>Voltage Regulation, Steady State:</b>	<b>&lt;1.0%</b>
<b>Alternator Capacity:</b>	<b>93.8KVA</b>
<b>Alternator Efficiencies:</b>	<b>90.8%</b>



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GENERATING SET DATA

Alternator	Others	Data
<b>Voltage Regulation:</b>		$\geq \pm 5\%$
<b>Voltage Regulation, Stead State:</b>		$\leq \pm 1\%$
<b>Sudden Voltage Warp (100% Sudden Reduce) :</b>		
<b>Sudden Voltage Warp (sudden Increase):</b>		$\leq -20\%$
<b>Voltage Stable Time (100% sudden Reduce):</b>		$\leq 6s$
<b>Voltage Stable Time (Sudden Increase):</b>		$\leq 6s$
<b>Frequency Reduce:</b>		$\leq 5\%$ adjustable
<b>Frequency Regulation, Stead State:</b>		$\leq 1.5\%$
<b>Frequency waving:</b>		$\leq 0.8\%$
<b>Sudden Frequency Warp (100% Sudden Reduce) :</b>		$\leq +12\%$
<b>Sudden Frequency Warp (Sudden Increase):</b>		$\leq -10\%$
<b>Frequency Recovery Time (100% sudden Reduce):</b>		$\leq 5s$
<b>Frequency Recovery Time (Sudden Increase):</b>		$\leq 5s$

Options		
Engine	Fuel System	Control System
Heater	Daily Fuel Tank	
Battery	Base Fuel Tank	
Auto Control Panel	Water Separator	
Remote Control Panel		
Auto Transfer Switch (ATS)		
Control Panel		
Paralleling System		
Electricity out put cabinet		
Anti Condensation Heater		
Permanent Magnet		
Generator (PMG)		
DROP CT (For Paralleling )		
Rainproof Type		
Soundproof Type		

Engine Parts Draw List

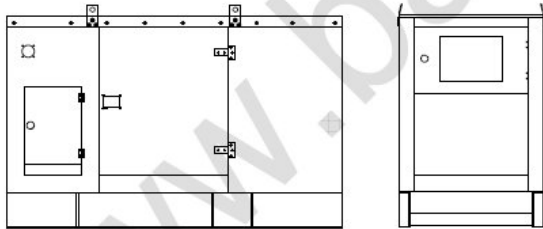
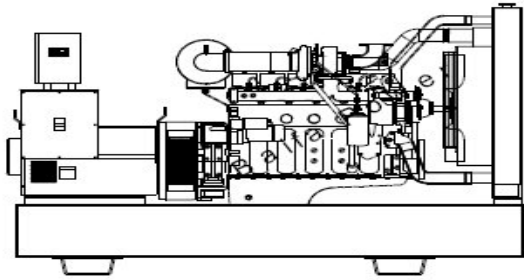
Trailer Type

Dimension & Weight



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**Soundproof frame.**

**Overall Size :113 inches 43 inches / 1830 (mm)  
Weight: 3990 lbs**





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### 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 Module Control Panel



Automatic Control Panel is the basic configuration for nobody on duty controlling generator. This kind of panel can accept the remote Start/Stop signals.  
(Controlled by ATS)

Features: adopted by producing, Auto control system, with large LCD, Display in English to show the menu. With Auto Control Panel .generator are of various functions such as auto/manual stop (Emergency Stop), programmable plugs for input and output detected data, symbols diagram will show in the LCD, etc.



