MODEL	SD-C1000
Standby Power（50Hz）	880KW /1100KVA
Prime Power（50Hz）	800KW /1000KVA

Standard Features

General Features:

☆Engine（CCEC Cummins KTA38-G5）

☆Radiator 40°C max, fans are driven by belt, with safety guard

☆24V charge alternator

☆Alternator（STAMFORD LVI634E), single bearing alternator IP22,insulation class H/H

☆Absorber

☆Dry type air filter, double fuel filter, oil filter, coolant filter

☆Main line circuit breaker

☆Standard control panel

☆Two12V batteries, rack and cable

☆Ripple flex exhaust pipe, exhaust siphone, flange, muffler

☆User manual

Generator Ratings

Voltage	HZ	Phase	P.F (COSφ)	Standby Amps	Standby Ratings (KW/KVA)	Prime Ratings (KW/KVA)
440/254	50	3	0.8	1443	880/1100	800/1000
415/240	50	3	0.8	1530	880/1100	800/1000
400/230	50	3	0.8	1588	880/1100	800/1000
380/220	50	3	0.8	1671	880/1100	800/1000

Prime Power (PRP): Prime power is available for an unlimited number of annual hours in variable load application, in accordance with GB/T2820-97（eqvISO8528）; 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 applicable 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

SDEC Power 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 1,000 running hours, subject to the earlier one.

Service and parts are available from SDEC Power or distributors in your location.

ENGINE DATA

Manufacturer / Model:	CCEC Cummins KTA38-G5，4-cycle
Air Intake System:	Turbo, Air/Water cooling
Fuel System:	PT type fuel pump， EFC
Cylinder Arrangement:	12 “V”
Displacement:	37.8L
Bore and Stroke:	159×159 (mm)
Compression Ratio:	13.9
Rated RPM:	1500rpm
Max. Standby Power at Rated RPM:	970KW/1319HP
Governor Type:	Electronic Speed Control System
Frequency Regulation, Steady State:	≤1.5%

Exhaust System

Exhaust Gas Flow:	3306L/s
Exhaust Temperature:	513℃
Max Back Pressure:	10kPa

Air Intake System

Max Intake Restriction:	6.23kPa
Consumption:	1213L/s
Intake Flow:	34944L/s

Fuel System

110%(Standby Power) Load:	221.7L/h
100%(Prime Power) Load:	199.4L/h
Total Fuel Flow:	1105/h

Oil System

Total Oil Capacity:	135L
Oil Consumption:	≤4g/kwh
Engine Oil Tank Capacity:	114L
Oil Pressure at Rated RPM:	297-483kPa

Cooling System

Total Coolant Capacity:	308L
Thermostat:	82-93℃
Max Water Temperature:	104℃

Emissions

HC :	0.21g/BHP.hr
NO_X :	9.31g/BHP.hr
CO :	1.78g/BHP.hr
PM :	0.50g/BHP.hr
SO_2 :	0.58g/BHP.hr
CO_2 :	480g/BHP.hr

ALTERNATOR SPECIFICATION

GENERAL DATA

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

Alternator Data

Manufacturer / Type:	STAMFORD / LVI634E1
Number of Phase:	3
Connecting Type:	3 Phase and 4 Wires, "Y" type connecting
Number of Bearing:	1
Power Factor:	0.8
Protection Grade:	IP22
Altitude:	≤1000m
Exciter Type:	Brushless, self-exciting
Insulation Class, Temperature Rise:	H/H
Telephone Influence Factor (TIF):	＜50
THF:	＜2%
Voltage Regulation, Steady State:	≤±1%
Alternator Capacity:	1000KVA
Alternator Efficiencies:	94.3%
Air Cooling Flow:	2.18m3/s

GENERATING SET DATA

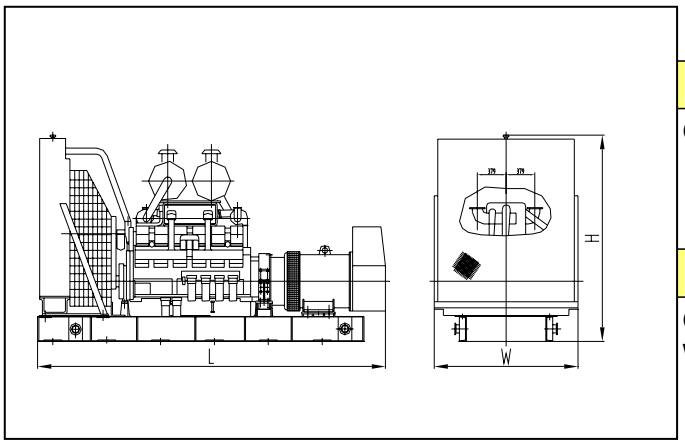
Voltage Regulation:	≥±5%
Voltage Regulation, Stead State:	≤±1%
Sudden Voltage Warp (100% Sudden Reduce):	≤+25%
Sudden Voltage Warp (100% Sudden Increase):	≤-20%
Voltage Stable Time (100% Sudden Reduce):	≤6S
Voltage Stable Time (100% Sudden Increase)	≤6S
Frequency Reduce:	⩽5% Adjustable
Frequency Regulation, Stead State:	≤1.5%
Frequency Waving:	≤0.5%
Sudden Frequency Warp (100% Sudden Reduce):	≤+12%
Sudden Frequency Warp (100% Sudden Increase):	≤-10%
Frequency Recovery Time (100% Sudden Reduce):	≤5S
Frequency Recovery Time (100% Sudden Increase):	≤5S
Noise Level:	102dB
Emission Level:	Euro Ⅰ

Options

Engine	Fuel System	Control System
Heater	Daily Fuel Tank	Auto Control Panel
Battery Charger	Base Fuel Tank	Remote Control Panel
	Water Separator	Auto Transfer Switch (ATS) Control Panel
		Paralleling System
		Electricity Output Cabinet

Alternator	Others	Data
Anti Condensation Heater	Rainproof Type	Engine Parts Drawing List
Permanent Magnet Generator (PMG)	Soundproof Type	Spare Parts
Drop CT (For Paralleling)	Trailer Type	

Dimension & Weight



Standard Configuration (Open Type)

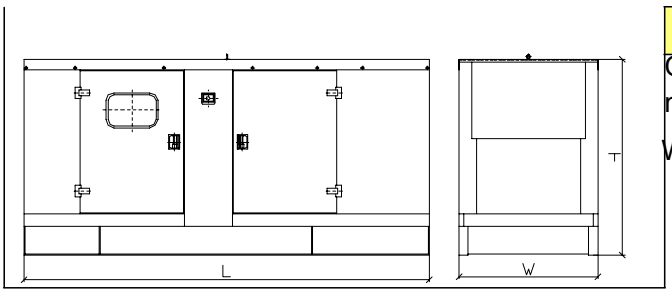
Overall Size: 4750 (mm)×2060 (mm)×2430 (mm)

Weight: 7500kg

With Base Fuel Tank

Overall Size: 4750 (mm)×2060 (mm)×2430 (mm)

Weight: 7800kg



Soundproof Type

Overall Size: 6058mm × 2438mm × 2591mm (without muffler)

Weight: 11370kg

Standard Control Panel

SDEC Standard Control Panel is the basic configuration for normal operation and usage, it is of some advantages such as easy to operate, various function and well protection. Operative buttons such as Turn On, Per-heat, 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 generators. This kind of panel can accept the remote start/stop signals. (Controlled by ATS)

Features: adopted Czech Comap Brand auto control system, with large LCD display in English (or Chinese) 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.

Auto Remote Control Panel

Automatic Remote Control Panel is based on the Auto Control Panel and add the standard communication plugs: RS232 (Modbus Communication Agreement). With Auto Remote Control Panel, it can realize remote control, remote detective, remote report by user using communicative
net or center inspect and control system.