

MODEL	SD-C30
Standby Power ( 50Hz)	26KW /33KVA
Prime Power ( 50Hz)	24KW /30KVA

**Standard Features**

General Features:

- ☆Engine ( DCEC Cummins 4BT3.9 -G)
- ☆Radiator 40°C max, fans are driven by belt, with safety guard
- ☆24V charge alternator
- ☆Alternator (STAMFORD BC1184G), 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
- ☆Two 12V batteries, rack and cable
- ☆Ripple flex exhaust pipe, exhaust siphone, flange, muffler
- ☆User manual



**Generator Ratings**

Voltage	HZ	Phase	P.F (COS Ø )	Standby Amps	Standby Ratings (KW/KVA )	Prime Ratings (KW/KVA )
440/254	50	3	0.8	43.2	26.4/33	24 /30
415/240	50	3	0.8	45.8	26.4/33	24 /30
400/230	50	3	0.8	47.5	26.4/33	24 /30
380/220	50	3	0.8	50	26.4/33	24 /30

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:	DCEC Cummins 4BT3.9-G, 4-cycle
Air Intake System:	Turbo
Fuel System:	A type fuel pump
Cylinder Arrangement:	4 in line
Displacement:	3.9L
Bore and Stroke:	102×120 (mm)
Compression Ratio:	16.5
Rated RPM:	1500rpm
Max. Standby Power at Rated RPM:	36KW/48.96HP
Governor Type:	GAC Electronic Speed Control System
Frequency Regulation, Steady State:	≤1.5%

**Exhaust System**

Exhaust Gas Flow:	6.32m <sup>3</sup> /min
Exhaust Temperature:	480°C
Max Back Pressure:	10kPa

**Air Intake System**

Max Intake Restriction:	6.2kPa
Burning Capacity:	2.32m <sup>3</sup> /min
Intake Flow:	126m <sup>3</sup> /min

**Fuel System**

110%(Standby Power) Load:	6.6L/h
100%(Prime Power) Load:	6.0L/h
Total Fuel Flow:	11.8L/h

**Oil System**

Total Oil Capacity:	11L
Oil Consumption:	≤4g/kwh
Engine Oil Tank Capacity:	8.0L
Oil Pressure at Rated RPM:	350kPa

**Cooling System**

Total Coolant Capacity:	20L
Thermostat:	83-95°C
Max Water Temperature:	100°C

**Emissions**

NOx :  
CO :  
Soor :  
HC :

**ALTERNATOR SPECIFICATION**

**GENERAL DATA**

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

**Alternator Data**

Manufacturer / Type:	STAMFORD / BC1184G
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:	31 KVA
Alternator Efficiencies:	87.0%
Air Cooling Flow:	0.095m <sup>3</sup> /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:	104dB
Emission Level:	Euro I

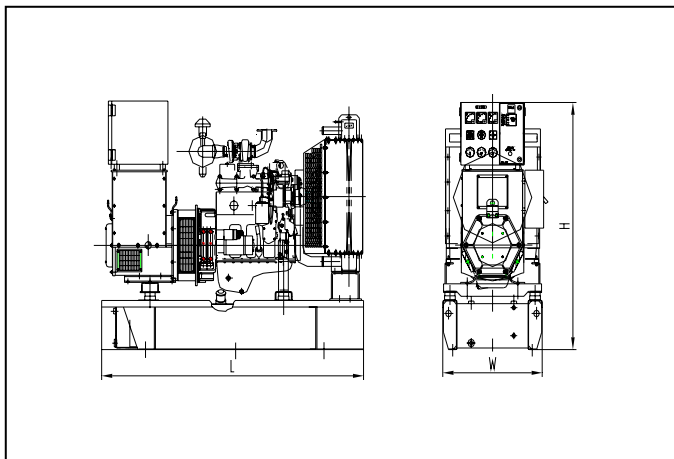
**Options**

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)**

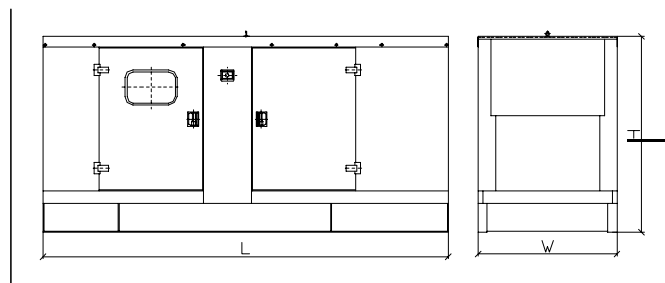
Overall Size: 1920 (mm)×750 (mm)×1400 (mm)

Weight: 780kg

**With Base Fuel Tank**

Overall Size: 1920 (mm)×750 (mm)×1400 (mm)

Weight: 880kg



**Soundproof Type**

Overall Size: 2600 (mm)×1100 (mm)×1850 (mm)

Weight: 1320kg

**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.