

**Silent type diesel generator**

# **QD100CS**

**Prime power 100kva**



**Noise level: 70db/7m**

# Benefits and Feature

- Cummins engine 6BT5.9-G1
- Close coupled to a Stamford alternator UCI274C
- Digital control module DSE6020
- Delixi main circuit breaker: 3-Phase 160A
- Rotate speed governor: Electrical fuel injection governor
- Excitation system: PMG
- AVR model: AS440
- Emergency stop switch
- ASIKAI BRAND ATS:160A (Optional)
- 2x12V sealed for life maintenance free battery
- Lockable battery isolator switch
- Powder coated canopy,50MM sponge.
- 50°C radiator
- Oil pump on the engine
- Steel base frame with fork lift hole.
- Vibration isolators between the engine/ alternator and base frame
- Dry type air filter
- Base fuel tank with 8-12 hours running
- Drain points for fuel tank
- Operation Manual / Specifications



## Output ratings

50HZ,1500RMP,3PHASE,4WIRE,230/400V

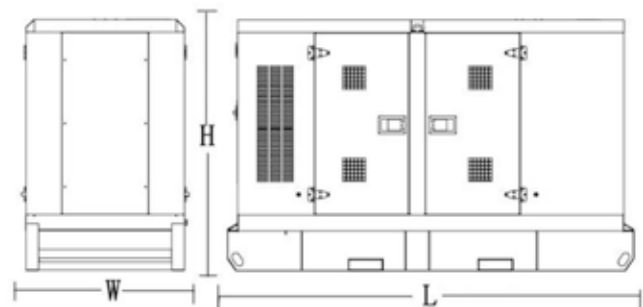
Generating Set Model	Prime	Standby
QD100CS	80KW/100KVA	88KW/110KVA

## Ratings and Performance Data

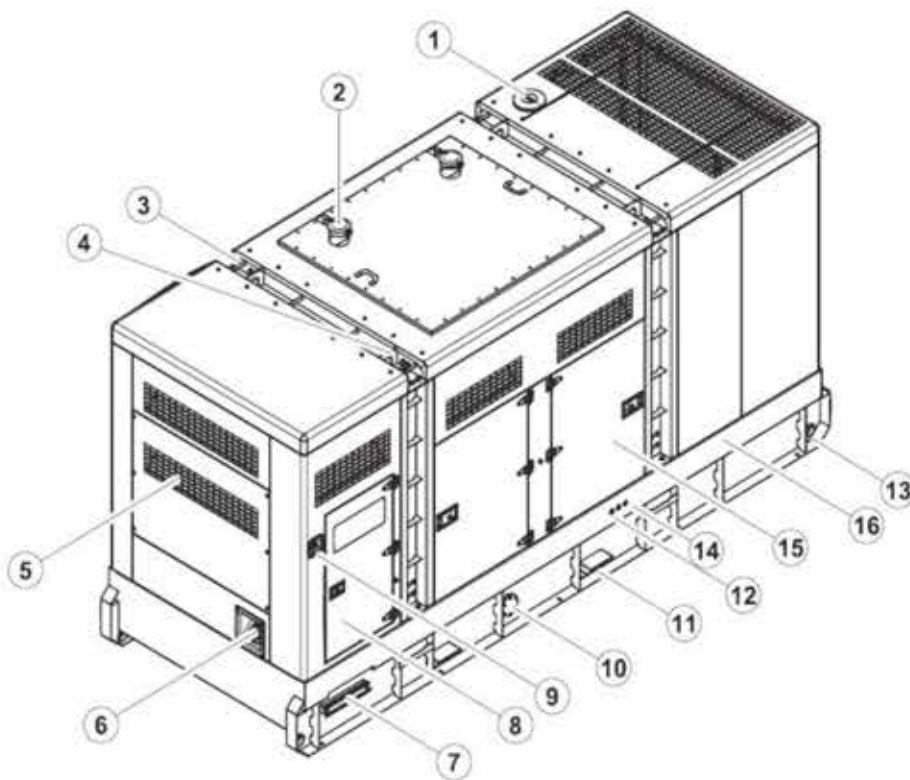
Engine Make & Model:	6BT5.9-G1
Alternator Model:	UCI274C
Control System:	DSE6020
Noise Level@7m:	70db/7m
Engine Speed: RPM	1500rpm
Frequency	50hz
Voltage	230/400V
Tank Capacity: L	360L
Fuel Consumption: L/h (100%/75%/50%Load)	22/17/11

## Dimensions and Weights

Generating Set Model	Length (L) mm (in)	Width (W) mm (in)	Height (H) mm (in)	Dry kg (lb)
QD100CS	3200	1205	1750	1680



# Product configuration-QD100CS



- 1. Coolant inlet
- 2. Exhaust gas outlet
- 3. Roping lug
- 4. Lifting lug
- 5. Air inlet
- 6. Fuel inlet
- 7. Cable trench
- 8. Control cabinet
- 9. Emergency stop switch
- 10. Fuel drain
- 11. Fork lift channel
- 12. External fuel inlet/return hose fitting
- 13. Tie down
- 14. Coolant/Oil drain hose fitting
- 15. Access door
- 16. Base frame

## Details show



Enclosed power outlet, terminal and sockets



Superior engine



Control switch for easy maintenance



Radiator protection cover



Forklift channel



Control panel



Double-layer fuel tank



Fuel inlet

## Cummins diesel engine

### Designed with Safety in Mind

Cummins water cooled diesel engine, oil and fuel filter fitted, water separator, Lube-oil drain valve fitted.

### Cast Iron Skirted Block:

With main bearing supports between each cylinder, for maximum strength and rigidity, low weight, and optimum crankshaft support.

### Compact Size:

For ease of installation and easy access for routine maintenance.

### Direct Fuel Injection System:

With high swirl intake ports for thorough mixing of air and fuel to provide low fuel consumption.

### Forged Steel, I-Beam Cross Section Connecting Rods:

With angle split cap-to-rod interface and cap screw attachment

For maximum structural strength and ease of service.

### Filters:

Air cleaner with dry element and restriction indicator.

Spin full flow lube oil filter.

### Cooling:

40 °C radiator as standard, Oil cooler, Drain tap.

Technical Data	
Engine Model	6BT5.9-G1
Engine Manufacturer /Brand	Cummins
Type and Cylinder	4 Cycle; In-line; 6 Cylinder
Induction system	TC
Bore x Stroke	mm 102*120
Compress the ratio	17.3 : 1
Engine Speed	rpm 1500
Standby Rated Output	kW 92KW
Oil Capacity	L 16.4
Coolant Capacity	L 7.9
Starting System	Electric - 24 volt DC
Displacement	L 5.9
Battery Voltage /Capacity	12VDC /120
Exhaust Temperature	°c 526
Fuel Consumption 100%	L/hr 22
Fuel Consumption 75%	L/hr 17
Fuel Consumption 50%	L/hr 11
Governing Type	E

Tip: Chin Power Company shall have the right to notice in advance, to type, technical parameter, color, configuration and accessories to do any modification, such as more information on the company web site, or contact us directly.

## Stamford alternator

Stamford newage has a long history of producing high-quality reliable products for the power generation market. Their portfolio of high quality generator ends is recognized as an industry standard.

### Alternator Technical Data

#### Stamford AC alternator

- ◆ Brushless, self exciting
- ◆ Class 'H' insulation
- ◆ Standard degree of protection is IP23
- ◆ Self regulating
- ◆ With fan cooling
- ◆ Resist humid grease
- ◆ AC excitation, rotating rectification tube
- ◆ Stator grease insulation covered
- ◆ Rotator and excitation high polymer
- ◆ Resist the corruption of oil and acid.
- ◆ Rotator balance is in accordance with BS5625 standard 12.5
- ◆ High-quality lubrication sealed long-time bearing
- ◆ Rotator silicon steel close tight

Generator Model	UCI274C
Exciter	Brushless
Cooling Fan	Cast alloy aluminum
Bearing	Single, double shielded
Windings	100% copper
Connection Type	Reconnectable
Insulation Type	Class H
Pitch	2/3
Amortisseur Winding	Full
A.V.R. Model	AS440
Voltage Regulation NL - FL	± 0.5%
Underspeed Protection	Standard
Overexcitation Protection	IP23
Standards	IEC 60034, NEMA MG1-32, ISO 8528, CSA C22.2-100, VDE 0530, GB755
Phase Sequence	A(U), B(V), C(W)
TIF (1960 Weightings)	<50
Excitation System	Self-exciting, PMG optional

# DSE6020

## AUTO START & AUTOMAINS FAILURE CONTROLMODULES

### FEATURES

The DSE6020 is an Auto Mains (Utility) Failure Control Module suitable for a wide variety of single, diesel or gas, gen-set applications.

Monitoring speed, frequency, voltage, current, oil pressure, coolant temperature and fuel level, the modules will display warnings, shutdown and engine status information on the back-lit LCD screen and illuminated LED.

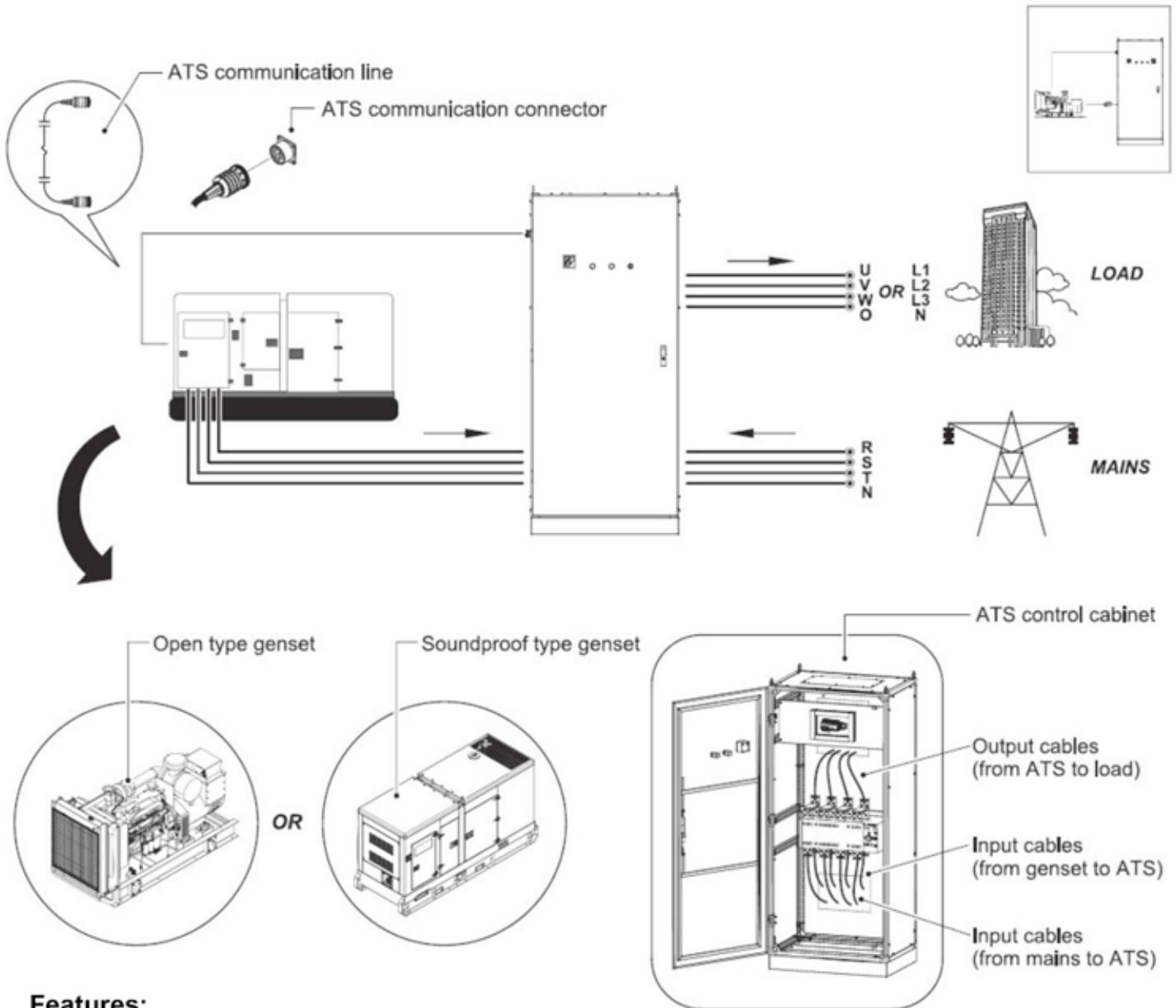


DSE6020 offers electronic (CAN) and non-electronic (magnetic pick-up/alternator sensing) engine versions and offer a number of flexible inputs, outputs and engine protections so the system can be easily adapted to suit a wide range of application demands.

### KEY FEATURES

- Back-lit icon LCD display
- Front panel editing
- LED and LCD alarm indication
- Power Save mode
- CAN and Magnetic Pick-up/Alt. versions available (specify on ordering)
- PC and front panel configuration
- 4 Digital inputs
- 3 Analogue inputs
- 6 Outputs (4 configurable on Magnetic Pick-up/Alt., 6 configurable on CAN version)
- Configurable timers and alarms
- Alternative configuration
- Event Log (5)
- Remote Start input
- 3 Phase generator monitoring
- Current monitoring and protection
- Power monitoring (kW, kV A, kV Ar)
- 3 Phase Mains (Utility) monitoring (DSE6020 only)
- Test button (DSE6020 only)
- Battery Voltage monitoring
- Engine pre-heat
- Hours counter
- Comprehensive shutdown or warning on fault condition

## AUTO TRANSFER SWITCH (ATS) -Optional



### Features:

- 1-Sheet steel lockable enclosure with hinged door.
- 2-Standard ASIKAI brand ,above 100A,it will installed in a box. blow 100A,it will be installed into silent canopy.
- 3-Finished in RAL7035 textured powder-coat
- 4-Removable base gland plate for cable entry/exit on all ratings
- 5-Voltmeter (0-500) across L1-L2 on load output
- 6-Load transfer push buttons
- 7-22.5mm multi-head LED indicators for “mains on load” and “generator on load”
- 8-Interface to Chinpower generator control panel
- 9-Suitably rated earth bar