

SHENZHEN ASAHI POWER TECHNOLOGY

Technical Datasheet of Cummins CDL100SA Diesel Generator Set



Model Specs: Cummins 6BTA5.9-G2, Stamford UCI274D, Deepsea DSE6210

GENERAL FEATURES:

Composed of Cummins Engine and Stamford, Marathon Alternator, Leroy-Somer, Engga

12V/24V DC starter motor and battery system

Brushless, Self-excited, IP23, insulation class H Alternator

Self enclosed water-cooling system, Steel Chassis

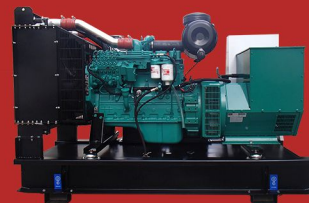
Key start panel control system as standard, digital auto start panel is optional

Optional 8-hours operation fuel tank or Base fuel tank

Optional open type or silent canopy, ATS, Sync system

All generating sets have gone through rigorous testing before delivery, including 50% load, 75%load, 100% load, 110% load and all protection function (over-speed stop, high water temp., low oil pressure, battery charging failure, emergency stop)

Criterion: ISO8528, GB/T2820, ISO3046, BS4999, BS5514, BS5000, EN12601:2001, EN60034-22:1997, EN60204-1:2006, ISO9001:2000 Quality Management & ISO14001:2004, SGS, TLC



GENERAL MAIN TECHNICAL DATA

3 Phase, 50Hz@1500RPM, 400/230V (380/220V, 415/240V, 440/254V are optional)

Voltage	Phase Factor	Prime Power	Standby Power	Engine	Alternator	Control System
400/230V	3P/0.8	100 kw	125 kva	110 kw	137.5 kva	6BTA5.9-G2 UCI274D DSE6210

WEIGHT AND DIMENSIONS

Gen-Set	Dimensions (L x W x H)	Weight (kg)
Open Type	2355 mm x 844 mm x 1460 mm	1300 kg
Silent Type	3000 mm x 1150 mm x 2000 mm	1700 kg

ENGINE SPECIFICATION

Engine Brand	Cummins
Engine Model	6BTA5.9-G2
Engine Type	6 Cylinders, in Line
Bore * Stroke (mm * mm)	102*120
Displacement	5.9 L
Prime Power	100kw/ 1500rpm
Standby Power	121kw/ 1500rpm
Aspiration	Turbocharged & Inter-cooled
Cooling System	Water-cooled
Speed Stability	≤5%
Starting Method	Electric Starting
Governor Method	Mechanical Governor

ALTERNATOR SPECIFICATION

Alternators are available for all applications. Stamford, Marathon, Leroy-Somer and Engga are available. According to their different functions, the control systems can be specified for key start controller model.

Alternator Brand	Stamford
Alternator Model	UCI274D
Rated Voltage	230/400V
Frequency	50 HZ
Winding Connection	3-phrase, 4-wire
Power Factor (COS)	0.8
Exciting Method	Brushless Self-exciting
Insulation Class	Class H
Protection Class	IP23
Winding Pitch	Two Thirds
Voltage Regulator	AVR
Voltage Regulation	≤± 1.0 %
Efficiency	90.3% ~ 91.1%
Waveform Distortion	< 1.5% (no load)
Maximum Overspeed	2250 Rev/Min
Telephone Interference (THF)	< 2%

Alternators meet the requirement of BSEN 60034 and the relevant section of other international standards such as BS5000, VDE0530, NEMA MG1-32, IEC34, CSA22.2-100, AS1359, Other standards and certifications can be considered on request.

The 2/3 pitch design avoids excessive neutral currents. With the 2/3 pitch and carefully selected pole and tooth designs, ensures very low waveform distortion.

Brushless alternator with brushless pilot exciter for excellent load response. Class H insulation, easy to parallel with mains or other generators, standard 2/3 pitch stator windings avoid excessive neutral currents.

CONTROL SYSTEM

Controllers are available for all applications. UK Deepsea, ComAp and SmartGen are available. By different functions, Control systems can be specified for key start control, automatic start control, PCRC three remote control.

Standard: Deep Sea DSE6210 Digital Auto Start

Providing the standard functions as follows:

(Also can be made according to the customers' special requirements)

- ※ Start/Stop controller
- ※ Ampere meter
- ※ Voltmeter and selector switch
- ※ Frequency/ Water temperature/ Oil pressure/ Hour counter/ Battery/ Voltage
- ※ Emergency stop pushbutton
- ※ Alarm System: Over speed, High Engine Temperature, Low Oil Pressure, Charge Failure
- ※ Protection System: Over speed, High Engine Temperature, Low Oil Pressure, Emergency Stop. And the other protection function presetting

Optional: Deep Sea DES6220 or Digital Auto Start (AMF) HGM170HC Key Start



DSE6210

ASSEMBLY/ WARRANTY

1. Engine, Alternator coupled by SAE flange with full torsion analysis, No harmful vibration
2. Anti-vibration pads are used between the engine, alternator feet and the base frame.
3. All iron, steel surfaces have been treated by grit blast cleaning and coating. Then covered by special three layers painting which provides an excellent corrosion resistant surface.
4. ASAHI provides one-source responsibility for the generator, with 12 months guarantee.

OPTIONAL PARTS



Circuit Breaker



Parallelling system



ATS



Super Silent Canopy