SHENZHEN ASAHI POWER TECHNOLOGY

Technical Datasheet of Cummins CDL68SA Diesel Generator Set

Model Specs: Cummins 6BT5.9-G2, Stamford UCI274C, 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	68 kw	85 kva	75 kw	93.75 kva	6BT5.9-G2	UCI274C	DSE6210

WEIGHT AND DIMENSIONS

Gen-Set	Dimensions (L x W x H)	Weight (kg)
Open Type	2370 mm x 830 mm x 1435 mm	1120 kg
Silent Type	3000 mm x 1100 mm x 1890 mm	1500 kg

ENGINE SPECIFICATION

Engine Model6BT5.9-G2Engine Type6 Cylinders, in LineBore * Stroke (mm * mm)102*120Displacement5.9 LPrime Power90kw/ 1500rpmStandby Power99kw/ 1500rpmAspirationTurbochargedCooling SystemWater-cooledSpeed Stability≤5%Starting MethodElectric StartingGovernor MethodElectronic Governor	Engine Brand	Cummins
Bore * Stroke (mm * mm) Displacement Prime Power Standby Power Aspiration Cooling System Speed Stability Starting Method 102*120 5.9 L 90kw/ 1500rpm 99kw/ 1500rpm Turbocharged Water-cooled ≤ 5% Electric Starting	Engine Model	6BT5.9-G2
Displacement 5.9 L Prime Power 90kw/ 1500rpm Standby Power 99kw/ 1500rpm Aspiration Turbocharged Cooling System Water-cooled Speed Stability ≤5% Starting Method Electric Starting	Engine Type	6 Cylinders, in Line
Prime Power 90kw/ 1500rpm Standby Power 99kw/ 1500rpm Aspiration Turbocharged Cooling System Water-cooled Speed Stability ≤5% Starting Method Electric Starting	Bore * Stroke (mm * mm)	102*120
Standby Power99kw/ 1500rpmAspirationTurbochargedCooling SystemWater-cooledSpeed Stability≤5%Starting MethodElectric Starting	Displacement	5.9 L
Aspiration Cooling System Speed Stability Starting Method Turbocharged Water-cooled ≤ 5% Electric Starting	Prime Power	90kw/ 1500rpm
Cooling System Speed Stability Starting Method Water-cooled ≤ 5% Electric Starting	Standby Power	99kw/ 1500rpm
Speed Stability ≤5% Starting Method Electric Starting	Aspiration	Turbocharged
Starting Method Electric Starting	Cooling System	Water-cooled
	Speed Stability	≤5%
Governor Method Electronic Governor	Starting Method	Electric Starting
	Governor Method	Electronic 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
Alternator Model
Rated Voltage
Frequency
Winding Connection
Power Factor (COS)
Exciting Method

Insulation Class
Protection Class
Winding Pitch
Voltage Regulator
Voltage Regulation
Efficiency

Waveform Distortion
Maximum Overspeed

Telephone Interference (THF)

Stamford UCI274C

230/400V 50 HZ 3-phrase, 4-wire

0.8 Brushless Self-exciting

> Class H IP23

Two Thirds

AVR

≤± 1.0 % 89.8% ~ 90.6%

< 1.5% (no load)

2250 Rev/Min

< 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. The2/3 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

144 S

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









ATS

Super Silent Canopy

Circuit Breaker

Parallelling system

