SHENZHEN ASAHI POWER TECHNOLOGY

Technical Datasheet of Cummins CDL500SA Diesel Generator Set

Model Specs: Cummins KT38-G, Stamford HCI544FS, 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)

Vo	oltage	Phase Factor	Prime	Power	Standby Power		Engine	Alternator	Control System
400	0/230V	3P/0.8	500 kw	625 kva	550 kw	687 kva	KT38-G	HCI544FS	DSE6210

WEIGHT AND DIMENSIONS

Gen-Set	Dimensions (L x W x H)	Weight (kg)
Open Type	4200 mm x 1630 mm x 2350 mm	7500 kg
Silent Type	4900 mm x 2100 mm x 2850 mm	9750 kg

ENGINE SPECIFICATION

Engine Brand	Cummins		
Engine Model	KT38-G		
Engine Type	12 Cylinders, V Type		
Bore * Stroke (mm * mm)	159*159		
Displacement	38 L		
Prime Power	560kw/ 1500rpm		
Standby Power	616kw/ 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.

Stamford **Alternator Brand Alternator Model** HCI544FS **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 94.8% ~ 95.3% **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. 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

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





DSE6210

