

500kva Cummins silent type diesel generator

General features:

- Engine:Cummins 6ZTAA13-G4
- Alternator:Stamford HCI4F
- Digital Controller:Harsen GU3320
- Equipped with 45°C Radiator;
- Equipped with 24V DC Start motor;
- Equipped with vibration Isolators between the engine/alternator and base frame;
- Equipped with high performance maintenance-free lead-acid starting batteries and battery switch;
- Equipped with industrial silencer and flexible exhaust hose;
- Equipped with high performance MCCB circuit breaker;
- Designed to Comply with ISO9001&CE;
- Every generator set is subjected to a comprehensive test program which includes 50% load, 75% load,100% load, 110% load and the checking and proving of all control and safety shut-down functions;

WEIGHT AND DIEMENSIONS	
Size of Genset Open Type	3300*1400*1970mm
Weight of Genset OpenType	3700KG
Size of Genset Silent Type	4000*1800*2150mm
Weight of Genset Silent Type	5500KG

GENSET POWER					
Voltage	Hz	Phase	Power Factor	Current	Power
120/208V	60HZ	3	0.8	1388A	500KVA

Data Sheet 60HZ

Open type



Data Sheet 60HZ

Silent type



Data Sheet 60HZ

ENGINE DATA	
Manufacturer/Model	Cummins 6ZTAA13-G4
No. Of Cylinder	4 Cylinders
Cylinder Arrangement	L Type
Cycle	4 Stroke
Aspiration	Turbocharged and after cooler
Combustion System	direct Injection
BorexStroke	130mm x163mm
Displacement	13 L
Compression Ratio	17:1
Prime Power/Speed	400KW/500KVA @ 1800rpm
Speed Governor	Electronic
Cooling System	Forced water cooling cycle
Steady speed droop	≤1%
Starter Motor	DC24V

FUEL SYSTEM	
Fuel Type	Diesel
Fuel Consumption at 100% Load	208gram/kw.h

LUBE OIL SYSTEM	
Total lubrication system capacity	45.42 L
Lube Oil Type	CD15W Class and Above

COOLING SYSTEM	
Coolant Capacity-Engine only	23.1L
Max Tank Temperature	104°C
Thermostat	83-95°C

Data Sheet 60HZ

ALTERNATOR DATA	
Manufacturer / Model	Stamford HCI4F
Prime power	400KW/500KVA
Frequency/speed	60HZ/1800rpm
Exciter type	Single bearing, Brushless, Self-excited
Power factor	0.8
Voltage adjust range	≥5%
Insulation Grade	H
Pole No.	4
Protection Grade	IP23
Phase / wire	3 phase 4 wires

CONTROL PANEL

The GU3320 is an Digital Control Module suitable for a wide variety of single, diesel or gas, gen-set applications. Monitoring an extensive number of engine parameters, the module will display warnings, shutdown and engine status information on the back-lit LCD screen and illuminated LEDs.

The control module gives digital readouts of:

- Generator voltage;
- Output frequency;
- Engine speed;
- Battery voltage;
- Engine hours run.

The control module has indicators for failure information:

- Over speed/Low speed,
- Emergency stop
- Low oil pressure;
- High water temperature
- Failure to start
- Battery charger failure

Automatic shutdown occurs under:

- Low engine oil pressure;
- High engine water temperature;
- Over speed/Low speed;
- Failure to start after three attempts.



Data Sheet 60HZ

STANDARD ACCESSORIES	Open type	Silent type
Sound-proof & Weather-proof Canopy	N/A	√
Daily base fuel tank. 8 hours capacity	N/A	√
Single-bearing generator again drops	√	√
Intelligent LED display control panel	√	√
Speed governor	√	√
Electric start and 24v charger	√	√
Standard air filter, oil filter, fuel filter	√	√
Cooling water tank	√	√
High-efficient silencer.	√	√
Exhaust elbow	√	√
Storage battery	√	√
Steel base-frame against vibration	√	√
Soft pipe for fuel and handle for lube going-out	√	√
Operation& Maintenance manual.	√	√