


DIESEL POWERED		
68	KVA	
Standby Power	kVA	68
Prime Power	kVA	62
Voltage	V	230/400
ISO Certified		Yes
Phase		Three



Features and Benefits

- **Maximum 68kva Standby Power at 230/400v @50hz 1500rpm**
- **High quality and reliable 4 cylinder 3.9 litre Turbocharged and Intercooled Cummins diesel engine**
- **Ideal for business applications**
- **Silent canopy which can stand outside with lockable doors**
- **Automatic changeover (ATS), Maintenance Free Batteries and Trickle Charger Included**
- **H Specification Insulation, Brushless alternator with AVR provides stable output**
- **High temperature and low oil, water and fuel protection to protect against engine damage**
- **Easy to use Digital Controller with Auto and Manual Start Options**
- **All sets undergo a comprehensive testing / pre delivery inspection prior to delivery**
- **Peace of Mind of earlier of 1 year / 1000 hour warranty**

STANDARD GENSET SPECIFICATIONS

ENGINE

- Cummins heavy duty diesel engine
- Four cylinder water cooled, turbo charged
- Electronic governor control system
- Replaceable wet type cylinder liners
- 24 V.D.C starter and charge alternator
- Replaceable fuel filter, oil filter and dry element air filter
- Cooling radiator and fan
- Fuel connection hoses and manual sump oil drain valve
- Exhaust silencer
- Maintenance free battery including rack and cables
- Jacket water heater (as option)
- Cummins Engine Manual

ALTERNATOR

- Brushless, single bearing system, 4 poles
- Insulation class H with circuit breaker protection
- Standard degree of protection IP 22
- Self-exciting and self-regulating
- AVR SX460 Included
- Screen protected and drip proof
- Stator winding with 2/3 pitch for improved harmonics
- Close voltage regulation

CHASSIS

- Steel chassis and antivibration pads
- Base frame design incorporates an integral fuel tank
- The generator can be lifted or carefully pushed/pulled by the base frame
- Includes diesel level sensor information to the controller

CONTROL SYSTEM

Control supervision and protection panel is mounted on the genset base frame. The control panel is equipped as follows:

- 1) **Auto Mains Failure Control Panel**
Panel equipments:
 - Smartgen series automatic transfer switch module
 - HGM7220 electronic controller
 - Emergency stop push button
 - Static Battery Charger
 - Electrically and mechanically interlocked

- a) **Generating set control module HGM7220 features**
 - This module is used to monitor a mains supply and automatically start a standby generating set
 - Micro processor based design
 - Monitors engine performance and AC power output
 - LCD and LED alarm indication ; GSM sms input slot (as optional extra)
 - Front panel configuration of timers and alarm trip points
 - Provides signal to change over switch panel
 - Event logging and shutdown alarms
 - Remote communication via RS232 port or RS485 output
 - Easy push button control
 - STOP/RESET - MANUAL - AUTO - TEST - START
 - Operation indicators accessed by the LCD display Scroll push button

- b) **Metering via LCD Display:**
 - Generator volts (L-L / L- N) ; Mains Volts (L-L / L- N)
 - Generator Ampere (L1, L2, L3) ; Generator KVA & KW

CANOPY

- Ventilation parts are designed with modular principles
- Weather resistant and lined with sound reducing foam
- All metal canopy parts are painted by powder paint
- Panel window
- Lockable doors on each side

- Easy maintenance and operation
- Easy lifting and moving
- Insulated engine exhaust system
- Exterior emergency stop push button

QUALITY STDS

- The equipment meets the following standards:
- ISO 9001:2000
- CE certified
- Cummins OEM partner



- Generator Frequency
- Engine hours run ; Plant battery volts
- Engine oil pressure (PSI & Bar)
- Engine speed RPM
- Engine temperature degrees C
- GSM sms signal
- Phase rotation

c) Automatic shutdown and fault conditions

- Under / Over Speed ; Fail to Start
- High engine temperature ; Fail to Stop
- Low Oil Pressure ; Charge Fail
- Under / Over generator volts ; Over current
- Under / Over generator frequency ; Emergency Stop
- Under / Over mains frequency
- Under / Over mains voltage
- Low / High battery volts
- Low Diesel level ; Low Oil level



ENGINE SPECIFICATIONS

* All ratings are quoted at maximum ratings at sea level and de rating will be applicable at altitude

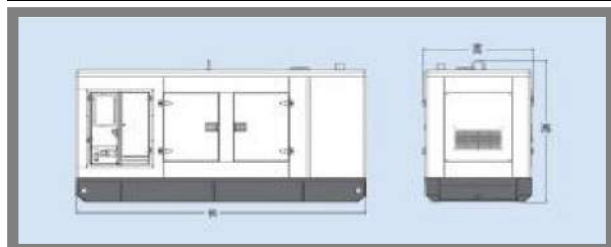
Diesel Generator Model	4BTA3.9-G2
Engine Make	Cummins
Displacement	3.9L
Cylinder bore / Stroke mm	102mm x 120mm
Fuel system	PB pump_GAC governor / BYC ASIMCO
Cylinders	4
Standby Power at 1500 RPM (kW/HP)	55 / 74
Base Output Power at 1500 RPM (kW/HP)	50 / 67
Turbo or Normally Aspirated	Turbo charged and intercooled
Fuel Tank Capacity	260L
Fuel Consumption 100%	13.1 L/H
Fuel Consumption 75%	9.8 L/H
Fuel Consumption 50%	6.7 L/H
Fuel Consumption 25%	3.8 L/H
Oil Type	15W40
Oil Capacity	9.5 L
Coolant capacity (engine only)	7.9 L
Starter	24 V
Starting System and Governor	Electronic
Engine Speed	1500 rpm
Torque_NM (Base/Standby)	318 / 350
Piston speed m/s	7,2
Engine Coolant Flow L/sec	2,2
Air Intake Flow (Base/Standby) L/sec	48 / 57
Exhaust Flow (Base/Standby) L/sec	130 / 155
ExhaustTemp (Base/Standby) C	460 / 485

ALTERNATOR SPECIFICATIONS

Standby Power Output (kVA)	68
Prime Power Output (kVA)	62
Insulation Class	H
Type	Brushless
Phase and Connection	3 phase, 4 wire
AVR	YES
AVR Model	SX 460
Voltage Regulation	± 1%
Voltage	400/230V
Rated Frequency	50HZ
Voltage Regulate Change	≤ ±10% UN
Phase change rate	± 1%
Power Factor	0,8
Protection Class	IP22
Stator	2 / 3 pitch
Rotor	Single Bearing

GENERAL SPECIFICATIONS

Structure Type: Silent	YES
Dimensions Length x Width x Height	2310mm x 1060mm x 1410mm
Dry Weight	1158 kg
ISO 9001 and CE Certified	YES
ATS Unit Included	YES
4 way protection system included	YES



Length x Width x Height, (mm)	Weight (Kg)
2310 x 1060 x 1410	1158

We reserve the right to change generator information without prior notice . Information is double checked to ensure that it is correct, however We will not be held responsible for clerical errors.

