

DIESEL POWERED

200 KVA



Standby Power	kVA	200
Prime Power	kVA	180
Voltage	V	230/400
ISO Certified		Yes
Phase		Three

### Features and Benefits

- Maximum 180kva Standby Power at 230/400v @50hz 1500rpm
- High quality and reliable 6 cylinder 8.3 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
- Six 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
- HGM7720 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

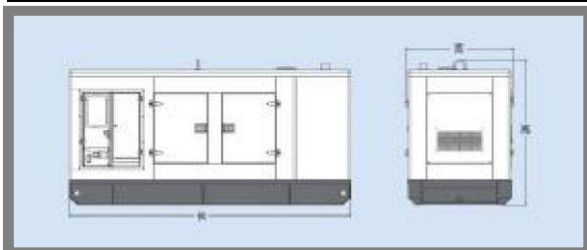
Diesel Generator Model	6CTA8.3-G2
Engine Make	Cummins
Displacement	8.3L
Cylinder bore / Stroke mm	114mm x 135mm
Fuel system	PB pump_GAC governor / BYC ASIMCO
Cylinders	6
Standby Power at 1500 RPM (kW/HP)	180 / 241
Base Output Power at 1500 RPM (kW/HP)	163 / 219
Turbo or Normally Aspirated	Turbo charged and intercooled
Fuel Tank Capacity	400L
Fuel Consumption 100%	40 L/H
Fuel Consumption 75%	30 L/H
Fuel Consumption 50%	20 L/H
Fuel Consumption 25%	11 L/H
Oil Type	15W40
Oil Capacity	18.9 L
Coolant capacity (engine only)	12.3 L
Starter	24 V
Starting System and Governor	Electronic
Engine Speed	1500 rpm
Torque_NM (Base/Standby)	1040 / 1145
Piston speed m/s	6,8
Engine Coolant Flow L/sec	3,3
Air Intake Flow (Base/Standby) L/sec	192 / 206
Exhaust Flow (Base/Standby) L/sec	519 / 578
ExhaustTemp (Base/Standby) C	536 / 563

## ALTERNATOR SPECIFICATIONS

Standby Power Output (kVA)	200
Prime Power Output (kVA)	180
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	3070mm x 1210mm x 1750mm
Dry Weight	2165kg
ISO 9001 and CE Certified	YES
ATS Unit Included	YES
4 way protection system included	YES



Length x Width x Height, (mm) Weight (Kg)  
3070 x 1210 x 1750 2165

*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.*

