



REDSTAR™

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Standby Generator 2000kVA



DESIGN SPECIFICATIONS

- High quality, reliable and complete power unit
- Compact design
- Easy start and maintenance possibility
- Every generating set is subjected to a comprehensive test programme which includes full load testing and checking and providing of all control and safety shut down functions testing
- Full engineered with a wide range of options and accessories: Canopy, soundproof and on road trailer

STANDARD GENSET SPECIFICATIONS

ENGINE

- CUMMINS heavy duty diesel engine
- Four cycle, water cooled, turbo charged and after cooled
- Electronic Governor Control System
- Direct injection fuel system
- Replaceable wet type cylinder liners
- 4 valves per cylinder
- 24 V D.C. starter and charge alternator
- Replaceable fuel filter ,oil filter and dry element air filter
- Cooling radiator and fan
- Starter battery(with lead acid) including Rack and Cables
- Flexible fuel connection hoses and manual oil sump drain pump
- Industrial capacity exhaust silencer and steel bellows
- Jacket water heater (at automatic models)
- Operation manuals and circuit diagram documents

ALTERNATOR

- Brushless, single bearing system, 4 poles
- Insulation class H
- Standard degree of protection IP21 or IP23
- Self-exciting and self-regulating
- Stator winding with 2/3 pitch
- Impregnation with tropicalised epoxy varnish
- Solid state Automatic Voltage Regulator

CHASSIS

- The complete genset is mounted as whole on a heavy-duty fabricated, steel base frame. Antivibration pads are fixed between the engine/ alternator feet and the base frame.
- Base frame design incorporates an integral fuel tank.
- The generating set can be lifted or carefully pushed / pulled by the base frame
- Lifting eyes allow easy transportation by a crane

CANOPY

- 40' Container
- Sandwich mineral wool attenuation
- Large lockable doors
- Acoustic baffles for the air inlet and outlet
- Steel internal floor
- Residential silencer
- White paint finishing (RAL 9010)
- 2000 litres fuel tank with retention bund

QUALITY STANDARDS

- The equipment meets the following standards: ISO 3046, VDE 0530, BS 4999, BS 5000, EN 60034-I, IEC 34. The generating set is manufactured by a full accredited NQA-ISO 9001.

WARRANTY

- 12 months warranty from commissioning date as standard.

CONTROL SYSTEM

Control, supervision and protection panel is mounted on the genset base frame.

The control panel is equipped as follows;

- Control Modules Common Features
- Automatic controls generating set, start and shutdown
- Front panel programming of the module settings
- Remote communication via RS 232 port or RS 485 "modbus" output.
- Scrolling digital LCD display
- Event logging of shutdown alarms
- Control Modules Common Features
- Generator Volts(F-F/F-N)
- Generator Amperes(L1,L2,L3)
- Generator Frequency (Hz)
- Generator kVA
- Generator kW

- Generator Cos j
- Engine Temperature (Cantigrade & Fahrenheit)
- Engine Speed RPM
- Engine hours run
- Plant attery volts
- XCommon Alarms
- Under / over generator volts
- Under / over generator frequency
- Over current
- Low oil pressure
- High engine temperature
- Under / over speed
- Low coolantlevel
- Fail to start
- Fail to stop
- Emergency stop
- Charge fail
- Low / High battery volts
- Auto Mains Failure Control System P2020
- Control with DSE model 5220
- Static battery charger
- Emergency stop push button
- Additional Features
- Monitoring AC mains supply
- Provides signal to change over switch gear
- Easy push button control
- Stop / Reset-Auto-Manual-Test-Start
- Additional Metering
- Mains volts (F-F / F-N)
- Mains frequency (Hz)
- Additional Alarms
- Under / over mains volts
- Under / over mains frequency
- Can data fail
- Can ECU fail
- Auto Start Control System P2010
- Control with DSE model 5210 module
- Emergency stop push button
- Additional Features
- Provides signal to load transfer
- Easy push button control
- STOP / RESET-AUTO-MANUAL-TEST-START

Standby Generator 2000kVA

Diesel Generating Set 400 / 230 V - 50 Hz

Output Rating	
Power	Pf. 0.8
STANDBY	
	2250kVA 1800kW
Prime	
	2000kVA 1600kW

Diesel Engine									
Engine Make	Cummins								
Model	QSK 60 G4								
Gross engine power output at rated rpm	1915kWm 2567hp								
Aspiration and Cooling	Turbo Charged and After Cooled								
Cylinders Capacity	60.2Lt								
Cylinders and Build	16-60° Vee								
Engine Speed	1500 rpm								
Bore and Stroke	159 x 190mm								
Compression Ratio	14.5:1								
Governor	Electronic								
Fuel Consumption	<table border="1"> <thead> <tr> <th>Load</th> <th>1/2</th> <th>3/4</th> <th>Full</th> </tr> </thead> <tbody> <tr> <td>L/hr</td> <td>200</td> <td>291</td> <td>394</td> </tr> </tbody> </table>	Load	1/2	3/4	Full	L/hr	200	291	394
Load	1/2	3/4	Full						
L/hr	200	291	394						
Fuel Tank Capacity	2000L								
Oil Capacity	280L								
Water Capacity	492L								
Air Intake - Engine	136 m ³ /min								
Exhaust Gas Flow	311 m ³ /min								
Alternator Voltage Regulation	± %1								

OPEN TYPE	
Dimensions (length x width x height)	6050 x 2500 x 3250mm
Dry weight	16500 kg

SOUND ATTENUATED TYPE	
Canopy Model	SCH40
Dimensions (length x width x height)	12192 x 2438 x 2800mm
Dry weight	

UPSPEC OPTIONS

Diesel Engine

- Remote Radiator
- Engine oil heater

Alternator

- 3 pole output circuit breaker
- Anti condensation heater
- Over sized alternator

Accessories

- Bulk Fuel Tank
- Automatic Fuel filling system
- Fuel warter seperator filter
- Residential silencer
- Sound Proof Canopy
- Manual fuel filling system
- Low fuel alarm
- 4 Pole contactor
- Electrical oil drain pump

GO CUSTOMISED

- Skid Mount Options
- External Switches
- Lifting Frames & Fabrication
- Custom Paint