



REDSTAR™

Passionate about Value

PH 1800 REDSTAR

www.redstarequipment.com.au

Standby Generator 1500kVA



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

- 30' 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



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Standby Generator 1500kVA

Diesel Generating Set 400 / 230 V - 50 Hz

Output Rating

Power Pf. 0,8

STANDBY 1675kVA
1340kW

Prime 1500kVA
1200kW

Diesel Engine

Engine Make Cummins
Model KTA 50 G8
Gross engine power output at rated rpm 1429kWm
1915hp
Aspiration and Cooling Turbo After Cooled
Cylinders Capacity 50.3Lt
Cylinders and Build 16-60° Vee
Engine Speed 1500 rpm
Bore and Stroke 159 x 159mm
Compression Ratio 14.9:1
Governor Electronic

Fuel Consumption	Load	1/2	3/4	Full
	L/hr	167	238	309

Fuel Tank Capacity 2000L
Oil Capacity 204L
Water Capacity 345L

Air Intake - Engine 95 m³/min
Exhaust Gas Flow 242 m³/min
Alternator Voltage Regulation ± %1.5

OPEN TYPE

Dimensions (length x width x height) 5450 x 2120 x 2800mm
Dry weight 11800 kg

SOUND ATTENUATED TYPE

Canopy Model SCH40
Dimensions (length x width x height) 12192 x 2438 x 2800mm
Dry weight 19700kg

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