



# REDSTAR™

Passionate about Value

PH 1800 REDSTAR

[www.redstarequipment.com.au](http://www.redstarequipment.com.au)

## Standby Generator 350kVA



### DESIGN SPECIFICATIONS

- High quality, reliable and complete power unit.
- Compact design
- Easy Start and maintenance possibility
- Every generating set is subject to a comprehensive test programme which includes full load testing and checking and proving of all control and safety shut down functions testing
- Fully engineered with a wide range of options and accessories: Canopy, soundproof canopy and mobile units.

#### Standard Genset Specification Engine

- Cummins heavy - duty diesel engine
- Four cycle, water cooled, turbo charged
- Electronic Governor Control System
- Direct injection fuel system
- Replaceable wet type cylinder liners
- 4 Valves per cylinder (for AC 400 and AC 440)
- 24 Volt D.C. starter and charge alternator
- Replaceable fuel filters, oil filters and dry element air filters
- Cooling radiator and fan
- Starter battery (with lead acid) including Rack and Cables
- Flexible fuel connection hose and manual sump oil drain valve
- Industrial capacity silencer and steel bellows
- Jacket water heater (automatic models)
- Operation manuals and diagram documents

#### Alternator

- Brushless, single bearing system, 4 poles
- Insulation class H
- Standard degree of protection IP21
- Self-exciting and self-regulating
- Stator winding with 2/3 pitch for improved harmonics
- Impregnation with tropicalised epoxy varnish
- Solid state Automatic Voltage Regulator Chassis
- The complete generating set 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

- The generating set can be lifted or carefully pushed / pulled by base frame
- Base frame design incorporates an integral fuel tank
- Dial type fuel gauge and drain bung on the fuel tank

#### Canopy

- All canopy parts are designed with modular principles
- Without welding assembly
- All metal canopy parts are painted by electrostatic polyester powder paint
- Exhaust silencer is protected against environment influences
- Thermally insulated engine exhaust system
- Emergency stop push button outside of canopy
- Easy lifting and moving
- Easy maintenance and operation

#### Quality Standards

- The equipment meets the following standards: ISO 3046, VDE 0530, BS 5000, IEC 34. The generating set manufactured by a fully accredited NQA ISO 9001

#### 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 RS232 port or RS 485 "modbus" output
- Scrolling digital LCD display
- Event logging of shutdown alarms
- Control Metering via LCD display
- Generator Volts(F-F/F-N)
- Generator Amperes(L1,L2,L3)
- Generator Frequency (Hz)
- Generator kVA
- Generator kW
- Generator Cosφ
- Engine oil pressure (PSI&Bar)
- Engine Temperature C & F

- Engine Speed RPM
- Engine hours run
- Plant battery volts
- Common 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

#### 1 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 pushbutton 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 5010 module
- Emergency stop push button

#### Additional Features

- Provides signal to load transfer
- Easy pushbutton control
- Stop / Reset-Auto-Manual-Test-Start



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## Standby Generator 350kVA

400 / 230 V - 50 Hz

### Output Rating

Power Pf. 0.8

**STANDBY** 350kVA  
280kW

**Prime** 316 kVA  
253 kW

### Diesel Engine

Engine Make Cummins  
Model NT 855 G6  
Gross engine power output at rated rpm 310kWm  
415hp  
Aspiration and Cooling Turbo Charged  
Cylinders Capacity 14Lt  
Cylinders and Build 6 - in line  
Engine Speed 1500 rpm  
Bore and Stroke 140 x 152mm  
Compression Ratio 14.0 : 1  
Governor Electronic

Fuel Consumption	Load	1/2	3/4	Full
	L/hr	36	52	69

Fuel Tank Capacity 420 L  
Oil Capacity 38 L  
Water Capacity 70 L

Air Intake - Engine 21.6 mm<sup>3</sup>/min  
Exhaust Gas Flow 64.0 m<sup>3</sup>/min

Alternator Voltage Regulation ± %1

### OPEN TYPE

Dimensions (length x width x height) 3230 x 1100 x 2000  
Dry weight 2910 KG

### SOUND ATTENUATED TYPE

Dimensions (length x width x height) 4400 x 1430 x 2270MM  
Dry weight 3900KG

## 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