



# REDSTAR™

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## Standby Generator 15kVA



### DESIGN SPECIFICATIONS

#### ENGINE

- Heavy duty diesel engine
- Four stroke, water cooled,
- Direct injection fuel system
- 12 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 valve
- Industrial capacity exhaust silencer and steel bellows
- Jacket water heater (at automatic models)
- Manual for use and installation

#### ALTERNATOR

- Brushless, single bearing system, flexible disc, 4 poles
- Insulation class H
- Standard degree of protection IP21
- Self-exciting and self-regulating
- Impregnation with tropicalised epoxy varnish
- Solid state Automatic Voltage Regulator

#### CHASSIS

- The complete generator 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.
- Base frame design incorporates an integral fuel tank.
- The generating set can be lifted or carefully pushed / pulled by the base frame
- Dial type fuel gauge and drain plug on the fuel tank
- Forklift pockets within base frame

#### CANOPY

- All canopy parts are designed with modular principles
- Without welding assembly
- Doors on each side
- All metal canopy parts are painted by electrostatic polyester powder paint
- Thermally insulated engine exhaust system
- Emergency stop push button is installed outside of canopy
- Easy lifting and moving
- Easy maintenance and operation

#### 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 - P 200

###### Panel equipments:

- Control with model AMF 4 module
- Static battery charger
- Emergency stop push button.

##### a) Generating set control module AMF 4 features:

- The module is used to monitor a mains supply and automatically start a standby generating set.
- Micro-processor based design
- Automatic control of mains and generator contactors.
- Monitors engine performance and AC power output
- LED alarm indication
- Front panel configuration of timers and alarm trip points
- Easy push button control.

##### STOP/RESET - MANUAL - AUTO - TEST - START

##### b) Metering via five-3 digit, 7 segment LED Display:

- Generator Volts (L-L / L-N)
- Generator Ampere (L1,L2,L3)
- Generator Frequency (Hz)
- Engine hours run
- Engine oil pressure (PSI)
- Engine temperature (°C)
- Plant battery volts
- Mains Volts (F-F / F-N) • Mains Frequency

##### c) Automatic shutdown on fault conditions

- Over and Under Speed
- Start and Stop failure
- Over Current / Overload
- Low Oil Pressure
- High engine temperature
- Low and high battery volt
- Charge fail
- Under / over generator voltage
- Under / over mains voltage
- Emergency stop

##### d) LED Indications:

- Mains available • Generator available
- Mains on load
- Generator on load

##### 2) Power Outlet Terminal Board Mounted on the Genset Baseframe

# Standby Generator 15kVA

Diesel Generating Set 400 / 230 V - 50 Hz

## Output Rating

Power Pf. 0.8

**STANDBY** 15.5 kVA  
12.5 kW

**Prime** 14.5 kVA  
11.6 kW

## Diesel Engine

Engine Make AKSA  
Model CZ 480Q  
Gross engine power output at rated rpm 15kW  
20.4hp  
Aspiration and Cooling Natural  
Total Displacement 1.8Lt  
Cylinders and Build 4 - inline  
Engine Speed 1500 rpm  
Bore and Stroke 80 x 90mm  
Compression Ratio 18:01  
Governor Mechanical

Fuel Consumption at full load

Load	Full
L/hr	4

Fuel Tank Capacity 35L  
Oil Capacity 5L  
Coolant Capacity 9L  
Radiator Cooling Air 120 m<sup>3</sup>/min

Air Intake - Engine 2 m<sup>3</sup>/min  
Exhaust Gas Flow 5.8 m<sup>3</sup>/min  
Exhaust Gas Temperature 425°C

## OPEN TYPE

Dimensions (length x width x height) NA  
Dry weight NA

## SOUND ATTENUATED TYPE

Canopy Model HYP2  
Dimensions (length x width x height) 1510 x 820 x 1150mm  
Dry weight 650 kg

## 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