



## Diesel Generators

### Output Ratings

Generator Set Model	RG-3.5
Fuel - HSD	Prime
380 - 415V, 50Hz	3.5kVA / 2 Kw

Ratings at 0.8 power factor

### Definitions

#### Standby Rating

The Standby Power rating is only applicable for emergency and standby applications where the generator set serves as the back up to the normal utility source. In installations served by unreliable utility sources (where outages last longer or occur more frequently), where operation is likely to exceed 200 hours per year, the prime power rating should be applied. The Standby Power rating is only applicable for emergency and standby applications where the generator set serves as the back up to the normal utility source. (as defined in ISO 8528-3)

#### Prime Rating

These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. There is no limitation to the annual hours of operation and this model can supply 10% overload power for 1 hour in 12 hours.

### Standard Reference Conditions

Ratings in accordance with ISO 8528. All engine performance data based on the above mentioned maximum continuous ratings at Standard Reference Conditions 27°C Air Inlet Temp, 100 Mtrs. A.S.L. 30% relative humidity. Fuel Consumption data at full load with diesel fuel having specific gravity of 0.85 & conforming to BS2869: 1998, Class A2

### Engine Technical Data

No. of Cylinders/Alignment:	Single
Bore/Stroke: mm (in)	85 x 90 (3.34 x 3.54)
Induction:	Natural
Cooling Method:	Air
Governing Type:	Mechanical
Frequency Regulation, no Load to full load	A2
Frequency Regulation, Steady State	ISO 8528 G1
Compression Ratio:	18:01
Displacement: l (cu.in):	0.51
Max. power kWm (BHP)	6.1 (8.3)
Air Cleaner Type	oil bath
Engine Electrical System:	
-Voltage/Ground	12/Negative
-Battery Charger Amps	12 V, 10 Amps

### Ratings and Performance Data

Engine Make & Model	LDA 510 1B1(1510)
Alternator Manufacturer	NSM
Generator Control Unit	Procom
Base Frame	Heavy Duty Fabricated Steel
Canopy/ Acoustic Enclosure	Rishabh
Circuit Breaker Type/Rating	2 Pole MCB
Frequency	50 Hz
Engine RPM	3000

### Available Options

Rishabh offers a range of optional features to tailor our generating sets to meet your power needs. Options include:

- 1- Upgrade to trailer Mounted Dgset for our rental & Emergency Power supply to Customers
- 2- A wide range of Sound Attenuated Containers
- 3- A variety of generating set control and synchronising panels
- 4- Additional alarms and shutdowns
- 5- A selection of exhaust silencer noise levels

For further information on all of the standard and optional features

for this product please contact your local Dealer or write to us at [marketing@rishabhengineering.com](mailto:marketing@rishabhengineering.com)

### Sound Level

Open Type Genset	102 db at 1 Mtr. In open area	Silent Type Genset with Acoustic Enclosure.	<75 db at 1 Mtr. In open area
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Ratings in accordance with ISO 8528, ISO 3046, IEC 60034, BS5000 and NEMA MG-1/22. Dgset picture may include optional accessories.

### Air Systems

Generator set air cooling system:	Blower / Fan
Combustion Air kg/hr	530
Heat rejected to ambient air :	

### Lubrication System

System type	Forced Lubrication
Lube oil type	Volvoline
Oil pan capacity with filter, L	1.75

## Model : RG-3.5

### Alternator Physical Data

Manufactured	NSM
No. of Bearings:	Single Sealed
Insulation Class:	H
Winding Pitch Code:	2/3 (M)
Wires:	4
Ingress Protection Rating:	IP23
Excitation System:	SHUNT
AVR Model:	NA
Alternator Operating Data	
Voltage Rating, V	415
Voltage Regulation (steady state):	+/- 1%
Wave Form NEMA = TIF:	50
Wave Form IEC = THF:	2%
Radio Interference:	Suppression is in line with European Standard EN61000-6
Radiant Heat: kW (Btu/min)	50 Hz 3.8 (216)

### Exhaust System

Max. Allowable Back Pressure: kPa (in Hg)	4.5 (1.328)
Exhaust Manifold type	Dry
Exhaust temperature at rated kW, dry exhaust, °C (°F)	-5°C to 55°C
Exhaust outlet size at engine hookup, mm (in.)	40 (1.57)

### Fuel System

Fuel prime pump	Mechanical
Fuel filter : Type, Qty	External , 1
Recommended fuel	HSD-ASTM D2
Fuel tank capacity , L	15

**General Information**

**Documentation**

A full set of operation and maintenance manuals and circuit wiring diagrams.

**Generating Set Standards**

The equipment meets the following standards: BS5000, ISO 8528, ISO 3046,

**Warranty**

All equipment carries full manufacturer's warranty. Extended warranty terms available.



**Fuel Consumption @ 0.85 kg/m³ Density**

Diesel, Lph (gph) at % load	Prime Rating
100%	2
75%	1.5
50%	1.3
25%	1.1

**Controller**

**LCD Display** | Run Time Hours, Current, Voltage, Engine RPM, Frequency, Engine Temperature & Oil Pressure, Battery V, Service Due Hours, Language Option English.

**LCD Fault Displays** | High Water Temperature, Low Lube Oil Pressure, Overspeed, Over & Under Voltage, Over & Under Frequency, E-Stop, Low Fuel Level, Over Load, Charging Alternator/ V-Belt Fault, Auxiliary Fault

**Standard Features & Accessories**

**Master Switch** : Start/Off-Reset/Auto

Remote two wire Start/Stop facility

**Superior Electronics**

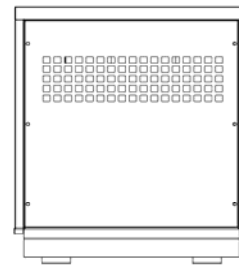
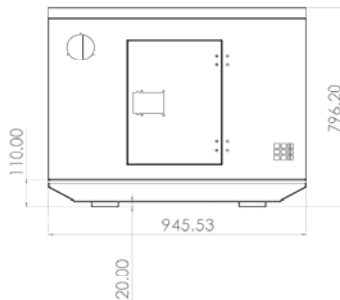
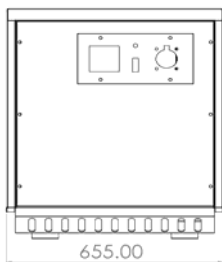
Language Option: English

**Dimensions & Weights**

Overall Size, L x W x H, mm(in.) 1110(43.7) x 750(29.53) x 800(31.5)

Weight

Total Genset Weight, Dry, kg (lb.) 300 (661.8)



Dgset Mfr By:- Rishabh



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