Industrial Range | VD Series



Diesel Generators



Output Ratings

Generator Set Model	RT-75
Fuel - HSD	Stand by
380 - 415V, 50Hz	75kVA / 60 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 & confirming to BS2869: 1998, Class A2

Engine Technical Data

Engine rechnical	Data	
No. of Cylinders/Alignme	ent:	4 in Line
Cycle:		4 Stroke
Bore/Stroke: mm (in)		97.0 (3.8) / 128.0 (5.0)
Induction:		Turbo Charged & Intercooled
Cooling Method:		Coolant
Governing Type:		Mechanical
Frequency Regulation, i	no Load to full load	A1
Frequency Regulation	, Steady State	ISO 8528 G1
Compression Ratio:		17.5:1
Displacement: I (cu.in):		3.8 (231.89)
Engine Power kW (BHP	?)	99.8
Air Cleaner Type		Dry Type
Engine Electrical Syster	m:	
	-Voltage/Ground	12/Negative
	-Battery Charger Amps	35/40
Piston Speed, m/sec (ft./sec.)	6.4 (20.9)

Ratings and Performance Data

Ratings and Performance Data	
Engine Make & Model	TATA 497TC
Alternator Manufacturer	Crompton Greaves/ Meccalte
Generator Control Unit	Procom
Base Frame	Heavy Duty Fabricated Steel
Canopy/ Acoustic Enclosure	TATA
Circuit Breaker Type/Rating	3 Pole MCCB
Frequency	50 Hz
Engine RPM	1500

Available Options

TATA 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

Dimensions and Weights of Engine

Length (L)	Width (W)	Height (H)	Dry	Wet
mm (in)	mm (in)	mm (in)	kg	kg
1136 (44.7)	852 (33.5)	1092 (42.9)	390	410
Dry = With Lube Oil Wet = With Lube Oil and Coolant				

Sound Level

102 db at 1 Mtr.
Open Type Genset In open area

Silent Type Genset with Acoustic Enclosure.

<75 db at 1 Mtr. In open

Replaceable Elemen

Ratings in accordance with ISO 8528, ISO 3046, IEC 60034, BS5000

and NEMA MG-1/22. Dgset picture may include optional accessories.

Air Systems Air Filter Type:

Radiator-cooled cooling air, m³/ min	185
Combustion Air kg/hr	239
Heat rejected to ambient air :	
Engine, kW (Btu/mi n.)	3.6 (204.91)
Restriction: kPa (in H2O)	1.5 (6)
Generator, kW (Btu/mi n.)	4.24 (242)
Air density, kg/m³(lbm/f t³)	1.2 (0.075)

Note: In View Of Continuous Product Upgradation & Design Changes, Above Specifications & Dimensions Are Subject To Change Without Prior Notice.

Performance	
Engine Speed: rpm	1500
Weight (includes lube oil): kg (lb)	410 (903.8)
Alternator Physical Data	

Alternator Physical Data	
Manufactured for TATA by:	Crompton Greaves/ Meccalte
Model:	G1R200MB / ECP32 4 C
No. of Bearings:	Single Sealed
Insulation Class:	н
Winding Pitch Code:	2/3 (M)
Wires:	4
Ingress Protection Rating:	IP23
Excitation System:	SHUNT

Alternator Operating Data	ı		
Voltage Rating, V		415	
Voltage Regulation (steady state):	+/- 1%	
Wave Form NEMA = TIF:		50	
Wave Form IEC = THF:		2%	
Total Harmonic Content LL/LN:		<6.0%	
Radio Interference:		Suppression is in line with European Standard EN61000-6	
Radiant Heat: kW (Btu/min)	50 Hz	3.8 (216)	

KAVR1

General Information

Documentation

AVR Model:

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, IEC 60034, NEMA MG-1.22. TATA is a fully accredited ISO 9001:2008 company.

IEC 60034, NEMA MG-1.22. Rishabh is a fully accredited ISO 9001:2008 company.

Warranty

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



45 (113)
3 (0.79)
18.5 (4.89)
100(26.4)
32.6
Impeller
515 (20.27)
0.125

Lubrication System	
Oil Filter Type:	Spin-On
Total Oil Capacity: Ltrs.	14
Oil Pan: Ltrs.	9
Oil Type:	CH4 15W-40
Oil Cooling Method:	Coolant

Exhaust System	
Max. Allowable Back Pressure: kPa (in Hg)	4 (1.2)
Exhaust Manifold type	Dry
Exhaust flow at rated kW, kg/hr	309.2
Exhaust temperature at rated kW, dry exhaust, °C (°F)	700 (1292)
Exhaust outlet size at engine hookup, mm (in.)	75 (2.95)

15 (0.59)
10 (0.39)
1 (3.28)
Manual
1, Spin-on
HSD-ASTM D2
170

ruel Consumption @ 0.65 kg/m Density	
Diesel, Lph (gph) at % load	Prime Rating
100%	16.5
75%	12.2

*Tolerance +/- 5%

Controller

LCD Dispalay | Run Time Hours, Current, Voltage, Engine RPM, Frequency, Engine Temperature & Oil Pressure, Battery V, Service Due Hours, Langauge Option Hindi or 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, Auxilary Fault

Standard Features & Acessories

Master Switch : Start/Off-Reset/Auto

Remote two wire Start/Stop facility

Superior Electronics

Language Option Hindi & English

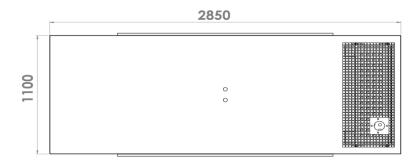
Model: RT-75

Dimensions & Weights

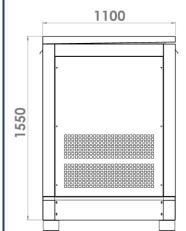
Overall Size, L x W x H, mm(in.) 2850(112.2) x 1100(43.3) x 1550(61) Weight

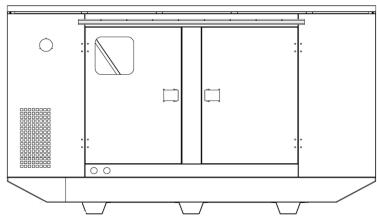
Total Genset Weight, Dry, kg (lb.)

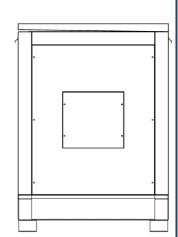
1580 (3483)



TOP VIEW







REAR VIEW RHS VIEW FRONT VIEW

Dgset Mfr By:- Authorized GOEM | TATA Motors



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Rishabh | TATA 75 kVA | VD | V.26.12.2019