



Diesel Generators



Output Ratings

Prime
40 kVA / 32.0 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 A1

Engine Technical Data

No. of Cylinders/Alignment:	4 in Line
Cycle:	4 Stroke
Bore/Stroke: mm (in)	97.0 (3.8) / 100 (3.9)
Induction:	Turbo Charged
Cooling Method:	Coolant
Governing Type:	Mechanical
Frequency Regulation, no Load to full load	A1
Frequency Regulation, Steady State	ISO 8528 G2
Compression Ratio:	17.5:1
Displacement: I (cu.in):	3.8 (231.89)
Engine Power kW (BHP)	56.3
Air Cleaner Type	Dry Type
Engine Electrical System:	
-Voltage/Ground	12/Negative
-Battery Charger Amps	35/40
Piston Speed, m/sec (ft./sec.)	6.4 (20.9)
Weight (includes lube oil): kg (lb)	410 (903.8)

Ratings and Performance Data

Engine Make & Model	TATA497SPTC
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 MCB
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
1427 (56)	709 (27.9)	1074 (42.2)	390	410

Dry = With Lube Oil Wet = With Lube Oil and Coolant

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

Sound Level

Open Type	102 db at 1 Mtr. In open	Silent Type Genset with Acoustic	<75 db at 1 Mtr. In open
Genset	area	Enclosure.	area
Ratings in acc	cordance with ISO 8528, IS	O 3046, IEC 60034, BS5000	

Air System

Replaceable Element
185
239
l l
3.6 (204.91)
•
3.6 (204.91) 1.5 (6) 4.24 (242)

lote: 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		
Manufactured for TATA by:	Crompton Greaves/ Meccalte	
Model:	G1R200SE / 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	
AVR Model:	NA	

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

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,

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

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Warrant

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



Cooling System		
Ambient temperature, °C (°F)		45 (113)
Engine jacket water capacity, L (gal.)	3 (0.79)
Radiator system capacity, incl	uding engine, L (gal.)	
Engine jacket water flow,Lp	m(gpm.) – Standby:	100(26.4)
Heat rejected to cooling water	at rated kW, dry exhaust, kW	32.6
Water pump type	– Standby:	Impeller
Fan diameter, including blades	s, mm (in.)	515 (20.27)
Max. restriction of cooling air, in	ntake and discharge side of radiator, k Pa	0.125
Lubrication System		

Edbridation Cystem	
Oil Filter Type:	Spin-On
Total Oil Capacity: Ltrs.	13
Oil Pan: Ltrs.	7
Oil Type:	CH4 15W-40
Oil Cooling Method:	Coolant

Exhaust System	
Max. Allowable Back Pressure: kPa (in Hg)	6.9 (2)
Exhaust Manifold type	Dry
Exhaust flow at rated kW, kg/hr	260.4
Exhaust temperature at rated kW, dry exhaust, °C (°F)	700 (1292)
Exhaust outlet size at engine hookup, mm (in.)	75 (2.95)

Fuel System	
Fuel supply line, min. ID, mm (in.)	15 (0.59)
Fuel return line, mm. ID, mm (in.)	10 (0.39)
Max. lift engine-driven fuel pump, m (ft.)	1 (3.28)
Fuel prime pum p	Manual
Fuel Filter: quantity, type	1, Spin-on
Recommended fuel	HSD-ASTM D2
Fuel tank capacity , L	130

r der Consumption @ 0.03 kg/iii Density	
Diesel, Lph (gph) at % load	Prime Rating
100%	9.1
75%	7.4
50%	5.4

*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

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

Model: RTS-40

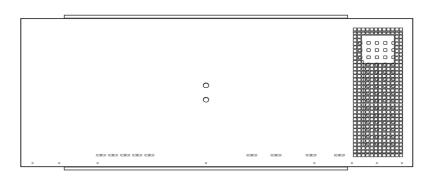
Dimensions & Weights

Overall Size, L x W x H, mm(in.) 2350(92.5) x 1030(40.5) x 1425(56.1)

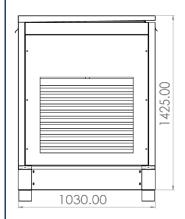
Weight

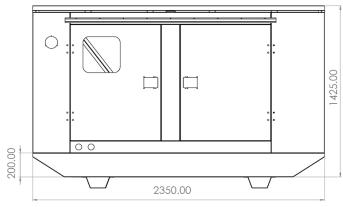
Total Genset Weight, Dry, kg (lb.)

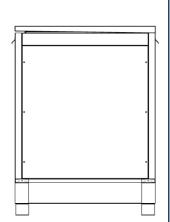
1040 (2292.8)



TOP VIEW







REAR VIEW RHS VIEW FRONT VIEW

Dgset Mfr By:- Authorized GOEM | TATA Motors



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Rishabh | TATA 40 kVA | VD | V.26.12.2019