Model: T-35

Industrial Die

Diesel Generators

Powered by TATA engine

Output Ratings Generator Set Model Fuel - HSD 380 - 415V, 50Hz

T-35 Prime 35 kVA / 28.0 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) / 100.0 (3.9)
Induction:	Turbocharged & Intercooled
Cooling Method:	Coolant
Governing Type:	Mechanical
Frequency Regulation, no Load to full load	A1
Frequency Regulation, Steady State	ISO 8528 G1
Compression Ratio:	17.5:1
Displacement: I (cu.in):	2.96
Engine Power kW (BHP)	42 (56.3)
Air Cleaner Type	Dry Type
Engine Electrical System:	
-Voltage/Ground -Battery Charger Amps	12/Negative 35/40
Piston Speed, m/sec (ft./sec.)	5.0 (16.4)
Weight (includes lube oil): kg (lb)	390 (859.8)

Ratings and Performance Data	
Engine Make & Model	TATA 497TCSP76
A.C Generator Manufacturer	Kirloskar Electric/Crompton
	Greaves
Generator Control Unit	Procom Model ECON
Base Frame	Heavy Duty Fabricated Steel
Canopy/ Acoustic Enclosure	ТАТА
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

Dimensions and Weights of Engine				
Length (L)	Width (W)	Height (H)	Dry	Wet
mm (in)	mm (in)	mm (in)	kg	kg
993 (39)	696 (27.4)	947 (37.2)	370	390
Dry = With Lube Oil Wet = With Lube Oil and Coolant				

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

able Element
185
239
3.6 (204.91)
1.5 (6)
4.24 (242)
1.2 (0.075)

Model: T-35

Performance	
Engine Speed: rpm	1500
Alternator Physical Data	
Manufactured for TATA by:	Kirloskar Electric/ Crompton Greaves
Model:	4AB180M1 / G1R200SE
No. of Bearings:	Single Sealed
Insulation Class:	н
Winding Pitch Code:	2/3 (M)
Wires:	4
Ingress Protection Rating:	IP23
Ingress Protection Rating: Excitation System:	IP23 SHUNT

Alternator Operating Da	ata	
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)

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.

Warranty

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, including engine, L (gal.)	18.5 (4.89)
Engine jacket water flow,Lpm(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, mm (in.)	515 (20.27)
Max. restriction of cooling air, intake and discharge side of radiator, k Pa	0.125
Lubrication System	
Oil Filter Type:	Spin-On
Total system oil capacity: Ltrs. Oil Pan: Ltrs.	10
Oil Pan. Lus. Oil Type:	7 CI4 15W-40
Oil Cooling Method:	Ci4 15W-40 Coolant
	Coolant
Exhaust System	
Max. Allowable Back Pressure: kPa (in Hg)	2 (0.6)
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 supply line, min. ID, mm (in.) Fuel return line, mm. ID, mm (in.)	15 (0.59) 10 (0.39)
Fuel return line, mm. ID, mm (in.)	10 (0.39)

Fuel Fliter: quantity, type	1, Spin-on
Recommended fuel	HSD-ASTM D2
Fuel tank capacity , L	170
Fuel Consumption @ 0.85 kg/m ³ Density	
Diesel, Lph (gph) at % load	Prime Rating
100%	7.3
75%	5.8
50%	3.9

Controller

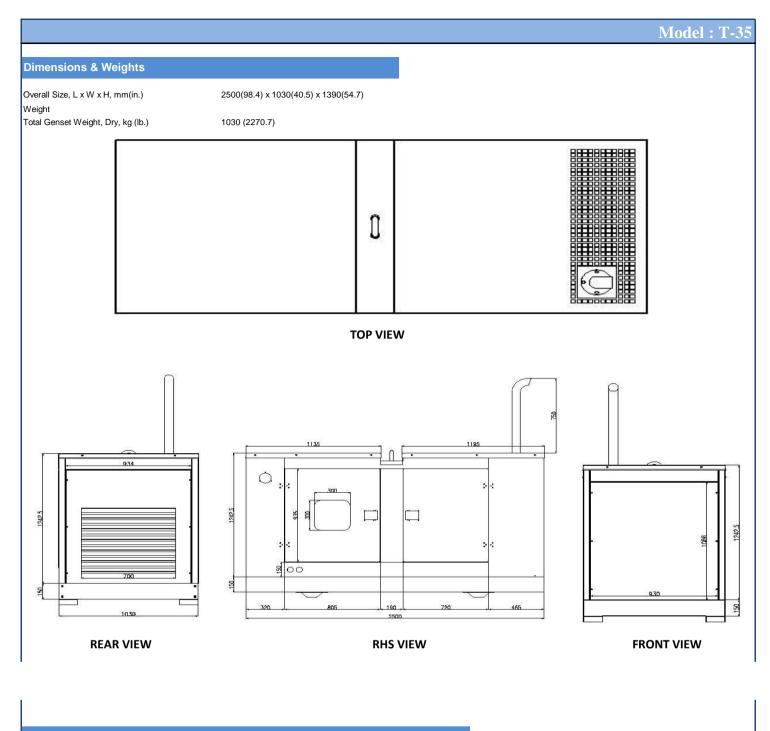
LCD Dispalay | Run Time Hours, Current, Voltage, Engine RPM, Frequency, Engine Temperature & Oil Pressure, Battery V, Service Due Hours, Langauge Option Hindi or English.

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



Dgset To Be Mfr By:- Authorized GOEM | TATA Motors