

**POWERFUL ENGINES
THAT EMPOWER THE NATION.**
TATA MOTORS GENSETS



697 Engines (82.5, 100, 125 KVA)



UNINTERRUPTED POWER, WITH THE TRUST OF TATA.

Tata Motors Gensets are known in the market for their robust durability and operating cost. Our Genset Engines are a class-apart, with high reliability and fuel-efficiency. They are easy to maintain and are compliant with the latest CPCB II emission norms.

Our 697 Genset Engines have been designed, developed and tested at our world-class R & D facilities. These engines are made as per design and quality standard of TATA Motors Ltd. This ensures that every customer gets the same high quality and standard product, irrespective of the sales location.



KEY FEATURES OF TATA ENGINES



Highly
Efficient



100% Continuous
Operations



Best in Class
Service Support



Environment
Friendly



Low Operation
& Maintenance Cost



Compact
Size



Low Carbon
Footprint



Most Reliable
Engine Even Under
Extreme Conditions



697 Engines (82.5, 100, 125 kVA)



SALIENT FEATURES

TATA MOTORS ENGINE

Tata Motors engine come with rich experience of moving India on its wheels. These engines are specially developed for genset segment from the same platform used in commercial vehicle. These engines are highly fuel efficient and low on operation cost.

Engine Features:

- Simple mechanical in line FIP and auxiliary systems - easy and compact installation.
- Best in class block loading capability.
- Lower engine noise facilitates optimum canopy size and improved acoustics.
- Proven and easy to integrate switches and sensors.
- Starter with thermal cut off feature for protection against over cranking.
- Fuel consumption is competitive & best in class across nodes
- Cost of running per unit electrical power generated is best in class.
- Dry type air cleaner and conventional fuel filter with water separation ensures low cost of spares.
- Pan India service support and easy spares availability.
- Low cost spare parts with minimum requirement of special tools.

ALTERNATOR

Tata Motors Gensets come with world renowned alternator.

Alternator Features:

- Single bearing
- Brushless type
- H Class insulation
- IP23 Protection
- Self excited



SALIENT FEATURES

CONTROL PANEL

Tata Motors Genset come with control panel made of 1.2 / 1.6mm powder coated CRCA sheet and fitted with world class controller.

Available in Manual and Automatic function on demand.

Controller Features:

- VAF (Voltage, Ampere, Frequency)
- RPM
- Run Hours
- Low Lube Oil Pressure
- Diesel Level
- Overload
- Emergency Stop
- Fail to start with reason
- Battery Voltage etc.
- Acoustic enclosure: < 75dBA



ACOUSTIC ENCLOSURE

Designed to meet CPCB norms norms of 75 dBA. Enclosure is all weather proof and hence can be installed in open space thus reducing the costs towards construction of a separate powerhouse.

Enclosure technical Features:

- The enclosure is modular in construction with the provision to assemble and dismantle at site, fabricated with of pre- treated CRCA sheets with powder coating.
- Best quality noise absorbent and fire-retardant grade acoustic insulation material (P.U. Foam) complying to IS 8183
- Adequate ventilation meeting air requirement of engine.

TECHNICAL SPECIFICATIONS OF TATA MOTORS 697 GENSET ENGINES

PARAMETER	UNIT	TECHNICAL SPECIFICATION FOR CPCB-II ENGINE		
Engine Model	-	697 TCIC	697 TCIC	697 TCIC
Power at rated - gross (HP)	hp	109.3	125.4	154.2
Power at rated - gross (KW)	kW	81.5	93.5	115
Rated speed	RPM	1500	1500	1500
Bore	mm	97	97	97
Stroke	mm	128	128	128
Engine Cylinder Arrangement	-	Inline	Inline	Inline
Working principle	-	4-Stroke	4-Stroke	4-Stroke
No. of cylinders	-	6	6	6
Firing Order	-	1-5-3-6-2-4	1-5-3-6-2-4	1-5-3-6-2-4
Total swept Volume	cc	5.68	5.68	5.68
Combustion type: DI / IDI	-	DI	DI	DI
Cooling	-	Liquid Cooled	Liquid Cooled	Liquid Cooled
Compression ratio	-	17.5:1	17.5:1	17.5:1
Aspiration	-	Turbocharged Intercooled	Turbocharged Intercooled	Turbocharged Intercooled
Lub oil grade	-	SAE 15 W 40 - CK4	SAE 15 W 40 - CK4	SAE 15 W 40 - CK4
Lub oil sump capacity / Min - Max. level difference	cc	"Min : 12 lit Max. : 14 lit"	"Min : 12 lit Max. : 14 lit"	"Min : 12 lit Max. : 14 lit"
Lub oil filter Type	-	SPIN ON	SPIN ON	SPIN ON
Lub oil filter change period	Hrs	500	500	500



POWERING KEY SECTORS OF INDIA.



Due to their high reliability and fuel efficiency, TATA Motors Gensets are the lifeblood of industries across India. In the nature of many businesses, uninterrupted power supply is a must. The diversity and adaptability of Gensets make it easy for industries of varying sizes to find the best solutions suited to their needs.

MEDIUM AND SMALL ENTERPRISES

Power failures in manufacturing plants can lead not only to low volume output, but lower quality of products, spoilage of raw materials and failure to reach markets on time. When it comes to controlled environments in farming, even a second's interruption in power could lead to loss of livestock and spoilage of product. Which is why, entrepreneurs across India in various small and medium scale manufacturing and farming rely on Tata Motors Gensets.



Manufacturing



Poultry Farms



Dairy Farms



Prawns Farming Facility

REAL ESTATE

Since power outages are common in cities and rural areas across India, a majority of commercial and residential real estate complexes, and residential bungalows rely on Tata Motors Gensets for power backups. The low noise, small footprint and the low emissions of Tata Motor Gensets make them suitable for use near residential areas.



Residential Bungalows



Residential Buildings



Commercial Buildings



Showroom

POWERING KEY SECTORS OF INDIA.



Many infrastructure and construction sites may be in off-grid remote areas. A number of machineries such as welders, chain saws, hand drills, air compressors, etc. present onsite need motive power. In projects undertaken at night, sufficient lighting is another necessity. Also, if administrative staff needs computers, they can also be powered onsite. And hence, Tata Motors Gensets are the trust of many organisations for their infrastructure needs.



Road



Metro



Canal



Pipeline

SERVICE INDUSTRY

The nature of healthcare industry requires uninterrupted power supply, failing which lives would be lost. With adequate fuel stored onsite, hospitals can have backup for over 48 hours. Hence hospitals and even hotels across India, use Tata Motors Gensets to maintain their commitment to the people.



Hospitality



Hotels



Hospitals



Diagnostic Centres

RENTAL

Renting is popular among businesses as rental expenditure can be written off as revenue expenditure in the same year, whereas owning the Genset would mean incurring capital expenditure that can be amortized in the future years. Many businesses, thus, use renting as a strategic tool. Tata Motors Gensets are known for their fuel efficiency, and are best suited for rental application.



Mobile Gensets



Offices



Showrooms

TELECOM

Communication is very important in today's world and to keep distant communication seamless and uninterrupted requires uninterrupted power back in remotest places as well. Tata Motors Gensets is the ideal choice considering the after sales support available at remote areas through their countrywide workshops to provide service backup.



Telecom



OFFICES AND WAREHOUSES

In any office, a power failure can not only cause interrupted service delivery and losses in revenue, but also IT challenges, security risks, and safety issues affecting customer trust, regardless of industry. And, of course, warehouses across the nation are critical to India's supply chain and any power failure can have far-reaching consequences. Hence, Tata Motors Gensets are preferred for the industry application.



Warehousing



Banks & Offices



Government Offices



Corporates



CCA 1800 267 6833

Customer Care Aggregates

Alternatively, you can also reach out to us via email,
at care@tatamotors.com.

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