

TATA MOTORS GENSETS



**POWER
TO YOU**



www.tatamotorsgenset.com

CPCB IV+

New Features & Enhancements

Lowest Total Cost & Improved Ownership Experience

- Improved running cost per unit
- 5% improved fuel efficiency over CPCB II range.
- Pan India service centres equipped and skilled to handle SCR systems
- Use of only TATA Genuine parts in after sales service

Common Rail Diesel Injection (CRDi)

- Provides a significant upgrade over traditional mechanical fuel injection systems
- Delivers:
 - Precise fuel control
 - Better engine response
 - Better cold start response
 - Reduction in engine combustion noise
- Enhanced performance
- Maximizes fuel atomization, delivering a smooth and smoke free performance

Exhaust Gas Recirculation (EGR)

- Controls NOx emissions through lowering the oxygen concentration in the combustion chamber
- Reduces consumption of lubricating oil
- Increases the fuel injection pressure

Selective Catalyst Reduction (SCR)

- It is an advanced active emission control system that injects DEF through a special catalyst into the exhaust stream
- SCR technology is designed to reduce Nitrogen Oxide (NOx) emission.
- Emits Nitrogen + Water in to the environment

TATA Diagnostic Software (TDS)

- Re-flashing of ECU on fingertips
- Reduced diagnosis time by identifying where the actual problem is
- Details trouble shooting information of ECU in the genset

Canopy

- Centre lifting
- PU Coated foam on doors for less absorption of diesel and oil
- Made only of TATA or equivalent quality steel
- Thicker sheet gauge than market offerings
- Drawer type fuel tank
- Oil & Coolant Drain arrangement
- Separate mounting for DEF Tank with 25 litres capacity
- Anti vibration Mounting Pads for engine and alternator mounting



Prime Power Engines

- Prime power is designed for unlimited hours, as compared to standby models designed for limited hours in a year
- Prime power gensets also permit 10% overloading
- Engine offerings by TATA MOTORS.
 - 45P – 55 KW (Prime rating)
 - 497 – 76 KW (Prime rating)
 - 697 – 118 KW (Prime rating)
- 90% reduction in PM (Particulate Matter)
- 87% reduction in HC (Hydrocarbons) & NOx (Nitrogen Oxide) in 497 & 697 models

Electronic Interface

- Synchronization compatible
- Engine Control Unit (ECU) equipped
- Controller Area Network (CAN) based engine diagnostics
- Fault code display on engine controller
- Algorithm based speed torque calculation for improved fuel efficiency
- Real time data acquisition with TATA RMS

Diesel Oxidation Catalyst (DOC)

- It doesn't require service & maintenance
- It promotes Chemical Oxidation of Carbon Monoxide (CO), Hydrocarbon (HC) and Soluble Organic Fraction (SOF)
- This chemical oxidation helps:
 - Reduce HC and CO significantly
 - Convert NO to NO2 for NOx reduction

TATA MOTORS Remote Monitoring System (RMS)

Genset at your finger-tips with

- Real time visibility and check on parameters
- Keep a check on your fuel level
- Track run time anytime and get reports on performance
- Check maintenance schedule and get notifications
- Check fuel consumption and past consumption trends
- Alarms for faster diagnosis

Deepsea Controller

The DSE controller is Microprocessor based having inbuilt Auto Logic Feature and has a graphical LCD display showing

- Phase voltage and current
- Frequency
- Genset kVA, kW, kWh, Power factor
- Lube oil pressure & Engine temperature
- RPM, Run hours, Fuel level
- Battery charge condition
- Over/Under speed
- Over/Under voltage
- Over current
- Low fuel level etc



Recommended for warranty support and longer life of generator set

Technical Specifications:

3 Phase DG SETS

TATA MOTORS

TATA MOTORS ENGINE RANGE									4SP RANGE		497 RANGE		697 RANGE	
GENSET SPECIFICATION														
Genset Model	TMG25	TMG30	TMG35	TMG40	TMG40 HD	TMG45	TMG50	TMG58.5	TMG70	TMG82.5	TMG100	TMG125		
Power Rating (kVA)	25	30	35	40	40	45	50	58.5	70	82.5	100	125		
Power Rating (kW)	20	24	28	32	32	36	40	46.8	56	66	80	100		
Power Factor	0.8 (lagging)								0.8 (lagging)		0.8 (lagging)			
Voltage	415 V								415 V		415 V			
Current per phase (Amperes)	35	42	49	56	56	63	70	81	97	114	139	174		
RPM / Frequency	1500 RPM / 50 Hz								1500 RPM / 50 Hz		1500 RPM / 50 Hz			
DG Set Noise at 1 meter	< 75 dB								< 75 dB		< 75 dB			
Fuel Tank Capacity (Approx in Ltrs.)	120				150				180		250			
Note: Do not overfill the diesel tank above it's given capacity to maintain adequate air space.														
CANOPY DIMENSION														
Length (mm)	2250				2550				2800		3300			
Width (mm)	1100				1100				1100		1250			
Height (mm)	1530				1530				1730		1930			
ENGINE														
Make	4SP								497		697			
	497SPTC88				497SPTC89				497TC57		697TC60			
Horse Power	43	43	43	43	74	74	74	74	103	103	160	160		
Performance class	ISO 8528								ISO 8528		ISO 8528			
Governing class	G3								G3		G3			
Displacement (cc)	2956								3784		5675			
Number of Cylinders	4								4		6			
Bore X Stroke	97 x 100								97 x 127		97 x 127			
Rated Speed (rpm)	1500								1500		1500			
Aspiration	TCIC								TCIC		TCIC			
Ambient Temperature Range	-10 to 50 deg C								-10 to 50 deg C		-10 to 50 deg C			
Fuel System	CRDI								CRDI		CRDI			
Lube oil change period	500								500		500			
Total lubrication system capacity (Ltrs.)	8.3								11.5		16			
Total coolant capacity including engine & radiator (Ltrs.)	12								16		23			
DEF Capacity (Ltrs.)	NA								25		25			
Starting Voltage	12V								12V		12V			
Fuel recommended	High Speed Diesel								High Speed Diesel		High Speed Diesel			
Lube oil recommended	TMGO - CK4 15W40								TMGO - CK4 15W40		TMGO - CK4 15W40			
ALTERNATOR														
Make	Stamford Or Equivalent													
Enclosure type	IP23													
Class of insulation & Excitement	Class H & Self Excited													
Voltage regulation	+/-1%													
Bearing & Type	Single Bearing & Brushless													
Maximum unbalanced load across phases	Up to 25%													
Max Time to build up rated voltage at rated RPM	<2 Seconds, provided engine reach the rated speed													

Awards & Recognition

BY TATA MOTORS



All India No. 1 GOEM
for 4 consecutive years



No. 1 GOEM
for achieving highest
market share of TATA
MOTORS Gensets in
India



No. 1 GOEM
for Highest TATA
Genuine Parts
Purchase

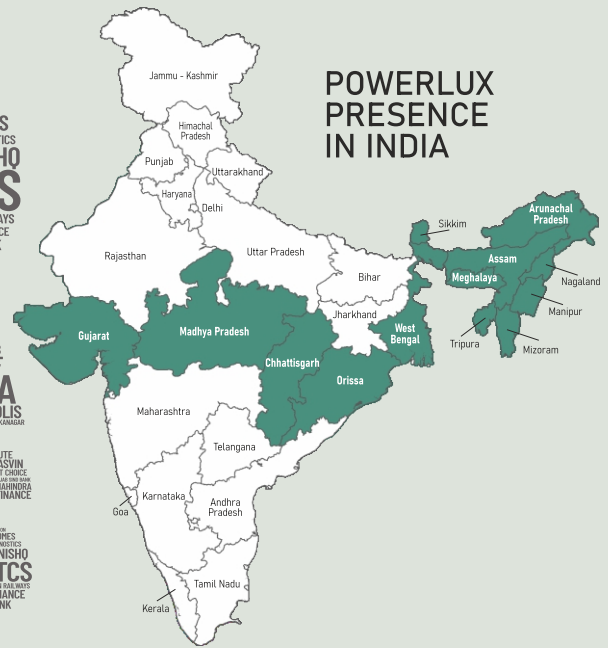
Technical Specifications:

1 Phase DG SETS

TATA MOTORS

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GENSET SPECIFICATION					
Genset Model	TMG25	TMG30	TMG40 HD	TMG45	TMG58.5
Power Rating (kVA)	25	30	40	45	58.5
Power Rating (kW)	20	24	32	36	47
Power Factor	0.8 (lagging)				
Voltage	415 V				
Current per phase (Amperes)	109	130	174	196	254
RPM / Frequency	1500 RPM / 50 Hz				
DG Set Noise at 1 meter	< 75 dB				
Fuel Tank Capacity (Approx in Ltrs.)	120		150		
Note: Do not overfill the diesel tank above it's given capacity to maintain adequate air space.					
CANOPY DIMENSION					
Length (mm)^	2250		2575		
Width (mm)^	1100		1100		
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ENGINE					
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Horse Power	43	43	74	74	74
Performance class	ISO 8528				
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Maximum unbalanced load across phases	Up to 25%				
Max Time to build up rated voltage at rated RPM	<2 Seconds, provided engine reach the rated speed				





How to calculate load

- 1) Put on only those equipments which you want to run on the Powerlux Silent Generator.
- 2) Go near the distribution box where you'll find four colored cables; Red, Yellow, Blue & Black.
- 3) Put the clamp meter around the Red, Yellow & Blue cable one by one and note down the ampere rating.
- 4) Now add the numbers in case of single phase requirement or pick the highest in case of three phase requirement.
- 5) Select your kVA from the ampere chart given in the technical specifications and see under which rating your requirement falls.



Note: After putting the clamp meter around the cable; turn off and on the heavy machines/equipments for better calculation. Also always select a rating 20% higher to your load for long term usage.

Get in touch with us

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Dealer Stamp