

TATA MOTORS
GENSETS



More Than
ENERGY &
ENGINEERING

GENERATOR SET SPECIFICATIONS

Model	TMG40 HD	TMG45 HD	TMG50	TMG58.5
Duty	Prime	Prime	Prime	Prime
Power Rating kVA / kWe	40/32	45/36	50/40	58.5/47
No. of Phases	1Ph / 3 Ph	1Ph / 3 Ph	3Ph	1Ph / 3 Ph
Output Voltage and Frequency (V and Hz)	240V / 415V - 50Hz		415V - 50Hz	240V / 415V - 50Hz
Power Factor	0.8	0.8	0.8	0.8
Current (3 phase/ 1 phase) (A)	174 / 56	195 / 63	70	254 / 81
RPM	1500	1500	1500	1500
Wet Weight (kg) (approx.)	1260	1330	1360	1390

ENGINE SPECIFICATIONS

Make	TATA MOTORS LMTIED			
Model	497SPTC89	497SPTC89	497SPTC89	497SPTC89
Certified Power for Rated kVA (hp)	74	74	74	74
Cooling	Liquid Cooled	Liquid Cooled	Liquid Cooled	Liquid Cooled
Aspiration	Turbocharged Intercooled			
No. of cylinders	4	4	4	4
Bore (mm) x Stroke (mm)	97 x 100	97 x 100	97 x 100	97 x 100
Compression ratio	17.5:1	17.5:1	17.5:1	17.5:1
Displacement (litre)	3.0	3.0	3.0	3.0
Fuel	High Speed Diesel	High Speed Diesel	High Speed Diesel	High Speed Diesel
Fuel System	CRDi	CRDi	CRDi	CRDi
Governing	Electronic - G3	Electronic - G3	Electronic - G3	Electronic - G3
Starting system	12V	12V	12V	12V
Lube oil specification	CK4 15W40	CK4 15W40	CK4 15W40	CK4 15W40
Lube oil sump capacity (litre)	8.3	8.3	8.3	8.3
Total coolant capacity (litre)	12	12	12	12
Exhaust pipe diameter (mm)	76	76	76	76

ALTERNATOR SPECIFICATIONS

Make	STAMFORD / MECC ALTE / EQUIVALENT				
SAE Size	3/10	3/10	3/10	3/10	3/10
Enclosure	IP 23	IP 23	IP 23	IP 23	IP 23
Voltage regulation (Max.)	+/- 1%	+/- 1%	+/- 1%	+/- 1%	+/- 1%
Class of Insulation	Class H	Class H	Class H	Class H	Class H
Winding Pitch	2/3	2/3	2/3	2/3	2/3
Stator Winding	Double Layer Lap	Double Layer Lap	Double Layer Lap	Double Layer Lap	Double Layer Lap
Rotor	Dynamically Balanced				
Maximum Unbalanced Load	Upto 25%	Upto 25%	Upto 25%	Upto 25%	Upto 25%
Telephonic Harmonic factor	< 2%	< 2%	< 2%	< 2%	< 2%

GENERATOR SET SPECIFICATIONS

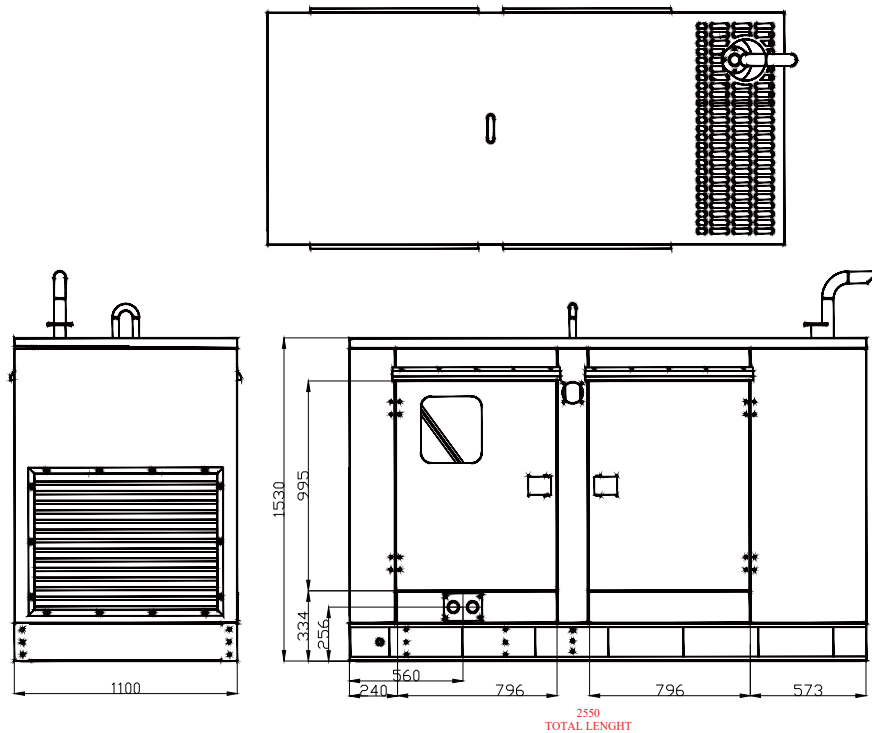
Genset Model	Rating (kVA)	Length (mm)	Width (mm)	Height (mm)	Standard Fuel Tank Capacity (litre)
TMG40 HD	40	2550	1100	1530	150
TMG45 HD	45	2550	1100	1530	150
TMG50	50	2550	1100	1530	150
TMG58.5	58.5	2550	1100	1530	150

Note: Product improvement is a continuous process hence data given is subject to change without any prior notice.

LATEST TECHNOLOGY AND UNMATCHED PERFORMANCE

- 1) TATA 4SP series is a square pattern CPCB IV+ approved engine having bore and stroke of 97mm x 100mm. This 3 litre engine and world class Stamford/Mecc alte or equivalent alternator makes an outstanding diesel genset.
- 2) Advanced inline-cylinder technology to meet latest emission norms without any after-treatment device.
- 3) Best in class performance and lowest after sales service cost
- 4) High altitude capabilities. No deration from -10 degree celcius to +50 degree celcius
- 5) Compact size, Smart aesthetic and superior finish
- 6) Improved fuel efficiency over CPCB II range of gensets

GA Drawing



CPCB IV+ BENEFITS

- 1) All engines are equipped with Bosch CRDi Fuel Pumps for high precision, better engine response, better cold start response and for delivering a smooth and smoke free performance
- 2) Addition of Diesel Oxidation Catalyst (DOC) and Exhaust Gas Recirculation (EGR) Technology
- 3) 90% reduction in Particulate Matter (PM)
- 4) 87% reduction in Hydrocarbons (HC) & Nitrogen Oxide (Nox)
- 5) Electronic interface with Engine control unit (ECU) which maps data and diagnoses faults in real time and displays all faults over the Deepsea controller via pre programmed fault codes.
- 6) Top in class G3 electronic governing across all range of TATA engines
- 7) Genset can be plugged with TATA Diagnostic Software via a tool to re-flash or trouble shoot any error in real time

ENVIRONMENT FRIENDLY

- 1) Approved by Central Pollution Control Board of India latest emission norms; CPCB IV+
- 2) Class defining technology engine is designed to meet stringent exhaust emission tests as per revised MoEF norms, thus offering environment friendly power.

GENSET BRIEF

- 1) Best in class jerk loading capacity
- 2) Alternator is compliance to BS & IS standards with single bearing & brushless type technology and H class insulation and IP23 protection.
- 3) Engine and alternator are mounted on a common MS fabricated base frame with AVM pads. Base frame with integral fuel tank is provided with drain plug, air vent, inlet and outlet connection, level indicator and provision for cleaning.
- 4) Acoustic is specially designed to meet stringent MoEF/ CPCB norms of 75 dBA @ 1mtr at 75% load under free field conditions.
- 5) All the major components – the engine, alternator, control panel, canopy and accessories are designed, manufactured or sourced and tested at per high-quality standard.
- 6) PAN India service support network.
- 7) All these things put together, POWERLUX offers you SINGLE WINDOW SUPPORT.

DEEPSEA CONTROLLER

Deepsea (DSE) controller is Microprocessor based having inbuilt Auto Logic Feature and has a graphical LCD display showing following parameters :

- 1) Phase, Voltage & Frequency
- 2) Ampere per phase
- 3) kVA, kW, kWh, Power Factor
- 4) Lube oil pressure & engine temperature
- 5) RMP, Run Hours, Fuel Level
- 6) Battery charge Condition
- 7) Over or under speed voltage/speed
- 8) Low Fuel Level
- 9) Fault codes signalling what fault ECU has diagnosed and need attention
- 10) A Fault Finding chart having all fault icons makes it easier to understand the breakdown for operator and help providing faster solution to the user.
- 11) The Control panel is equipped with hooter alarm to alert breakdowns

OPTIONAL

- 1) Cold Start Kit
- 2) Remote Monitoring system (RMS)