

# FEATURES AND BENEFITS

ENGINE	
Cutting Edge Technology	Best in Class Fuel Efficiency Lowest Maintenance Longest Oil Change Period Longest Overhauling Period Most Economical Genset
A1/ Isochronous <sup>#</sup> Governing	Quality of Power Zero Flickering and Fluctuation
High Moment of Inertia and Torque	Best in Class Block Loading Capability Better Performance at Varying Load
Individual Blowers (Air Cooled Range)	Even cooling of all the cylinders Better efficiency
Turbo Charger with Inter Cooler (Water Cooled Range)	Better Engine Efficiency
Most Reliable Engines	Prime Power Rating available across range Most Powerful Engines in their Class
ACOUSTIC ENCLOSURE	
CRCA Sheet	Longer Life
40 mm PU Foam (5 to 62.5 kVA) 50 mm PU Foam (82.5 to 125 kVA)	Thickest in its class Low noise and vibration level Super Silent Options available
Silencer Inside the Canopy	Better Aesthetics Longer life of Silencer
Compact Size	Saves Space Suitable for roof top installation
Large Doors on Both Sides Drain Provided for Lube Oil and Fuel Tank	Ease of Maintenance
Unitary Front and Back Panel Canopy with Internal Bolting Stainless Steel (SS) Hinges with SS Studs SS Slam Locks with Barrel & Padlock arrangement	Higher Degree of Safety
Dual Fuel Lock S-bend Fuel Pipe SS Fuel Strainer	Pilferage Proof
<sup>#</sup> Available in 125 kVA	

# CUSTOM OPTIONS

- Special control panel options
  - Super silent option (65 db)
  - Ultra super silent option (58 db)
- Fuel tank available with different capacity/configurations
  - RTU DG sets
  - Custom made options for telecom industry

# OUR CLIENTS



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# SOLVING YOUR POWER NEEDS



**TAFE MOTORS AND TRACTORS LIMITED**  
(A wholly owned subsidiary of **TAFE**)  
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**MADE IN INDIA  
MADE FOR THE WORLD**



**TECHNOLOGY  
HAS A NEW NAME**

- BEST FUEL ECONOMY
- BEST COST OF OWNERSHIP
- BEST IN RELIABILITY
- BEST IN CLASS LIFE



*You can rely on us...*



OUR HERITAGE

As one of the pioneers in manufacturing diesel engines in the country with a heritage of more than 55 years lending to its expertise, TMTL Engines Division envisages growing exponentially in the power generation segment by providing cutting edge technology, best fuel efficiency, and lowest cost of ownership.

TAFE Motors and Tractors Limited (TMTL), a wholly owned subsidiary of Tractors and Farm Equipment Limited (TAFE), came into being when TAFE acquired the tractors, gears, transmission and engines business from Eicher Motors Limited in 2005. Through technical collaboration with companies such as Ricardo Consulting (UK), Sisu Diesel and Valtra (Finland), a new range of Engines from 38.1 HP to 160 HP (30 kVA to 125 kVA) was developed and added to the original German Technology heritage engines range of 11.5 HP to 60 HP.

TMTL Engines Division offers economical power solutions with custom built products and services to cater to a wide range of institutional and retail customers ranging from banking and finance, rental agents, commercial, construction and real estate, hospitality, information technology, government and public sector, small and medium enterprises, agro entrepreneurs and farmers, petrol pumps, educational institutes, residential and hospitals etc., and has an existing base of over 1 million highly satisfied customers.

With an emphasis to meet global standards of quality and productivity, TMTL Engines Division employs quality management tools such as TQM, TPM, SGA and Kaizen extensively. The engines plant at Alwar is certified under ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

TMTL Engines Division with a 700% growth on volume basis in last 14 years of its existence, is one of the fastest growing engines manufacturers in world and enjoys a dominant market share in the Telecom segment. TMTL Engines Division's flagship product, 125 kVA generator, is one of the most technologically advanced gensets in India with indigenously developed CRFIS engine and Isochronous Governing, which is helping TMTL carve a unique identity for itself in its quest to truly become world leading engine manufacturer.



TECHNICAL SPECIFICATION

GENSET															
Power (kVA)	5	7.5	10	15	20	25	30-35	40-45	30	40-45	62.5	82.5	100	125	
Duty	Prime	Prime	Prime	Prime	Prime	Prime	Prime	Prime	Prime	Prime	Prime	Prime	Prime	Prime	
Control Panel	Options Available for AMF / Manual Control														
Acoustic Insulation															
PU FR - Acoustic Foam															
DG Dimensions in mm	L	1500	1500	1700	1700	1700	2050	2250	2450	2150	2250	2650	3050	3050	3050
	B	850	850	900	900	900	900	1000	1030	950	1000	1000	1300	1300	1300
	H	1225	1225	1350	1250	1250	1250	1400	1400	1400	1400	1550	1750	1750	1750
Fuel Tank Capacity (Lt.) *	50	50	60	80	80	100	100	100	80	100	125	250	250	250	
Weight of DG Set (Kg) **	650	700	925	950	950	1050	1200 / 1225	1270 /1330	1200	1270/1330	1470	1980	2000	2050	
ENGINE															
Engine Manufacturer	TAFE Motors and Tractors Limited														
Engine Brand	TMTL Engines														
Engine Model	198 ES	198 ES	222 ES	322 ES	323 ES	422 ES	422 TC	422 TCI	461 ES	621 ES	881 ES	1121 ES	1401 ES	1751 ES	
No. of Cylinders	1	1	1	2	2	3	3	3	3	3	3	4	4	4	
Aspiration	Naturally Aspirated						Turbo Charged	Turbo Charged Inter-cooled	Naturally Aspirated	Turbo Charged Inter-cooled					
Engine BHP (gross)	11.5	11.5	18.7	25.1	25.7	35.5	48.2	60	38.1	59.1	82.3	102	128	160	
Reference Standard	Engine - BS: 5514, ISO: 3046, IS: 10000, Genset - ISO: 8528														
Displacement (cc)	981	981	1557	1963	1963	2945	2945	2945	3298	3298	3298	4910	4910	4910	
Compression Ratio	17.5:1	17.5:1	17.8:1	17 : 1	17 : 1	17 : 1	17 : 1	17 : 1	18.5 : 1	18.5 : 1	17 : 1	17 : 1	17 : 1	17 : 1	
Type/Class of Governing	Mechanical / A1 (As per BS 5514)													Iso-chronous	
Bore x Stroke (mm)	100x125	100x125	115x150	100x125	100x125	100x125	100x125	100x125	108x120	108x120	108x120	108x134	108x134	108x134	
Type of cooling	Air Cooled								Water Cooled						
Lub oil Sump capacity (with filters)	5	5	7.5	8.0	8.0	9.5	9.5	9.5	7.1	7.1	8.0	15	15	18	
Engine Electrical System	12 Volts DC														
ALTERNATOR															
Phase	1 Phase / 3Phase										3Phase				
Voltage	240 V AC, 415 V AC										415 V AC				
Power Alternator Type	Single Bearing, Brushless, Single / Three Phase, Insulation Class H														
Power Factor	0.8 lag														
Rated speed / Freq	1500 RPM / 50 / 60 Hz														

Because of continuous improvement, product specifications and features described herein are subject to change without notice  
\* Fuel tank can be customized as per requirement  
\*\* 1.The weight of DG is approximate (With Engine Lubricating Oil and Coolant as applicable but without Diesel fill)  
2.Tolerance applicable on the weight of the DG Set +/- 50 kg owing to variation in DG Set accessories and different makes of Alternator



PRIME POWER (PRP)

Applicable for supplying power to varying electrical load for unlimited hours. Prime Power (PRP) is in accordance with ISO 8528. 10% overload capability is available in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.



TMTL GENSET CONTROL UNIT

Controller Make - Deep Sea PLC.  
Safeties for Over/Under Voltage/Frequency/Speed, Overload, Canopy Fan Fault, Load Imbalance, Low Lube Oil Pressure, High Cylinder/ Water Temperature, Low Fuel Level, Radiator Coolant Low, Charging Alternator etc.

Service due Prompt - Control Unit will display the service due alert based on hours of operation  
Automatic starting & AMF facility