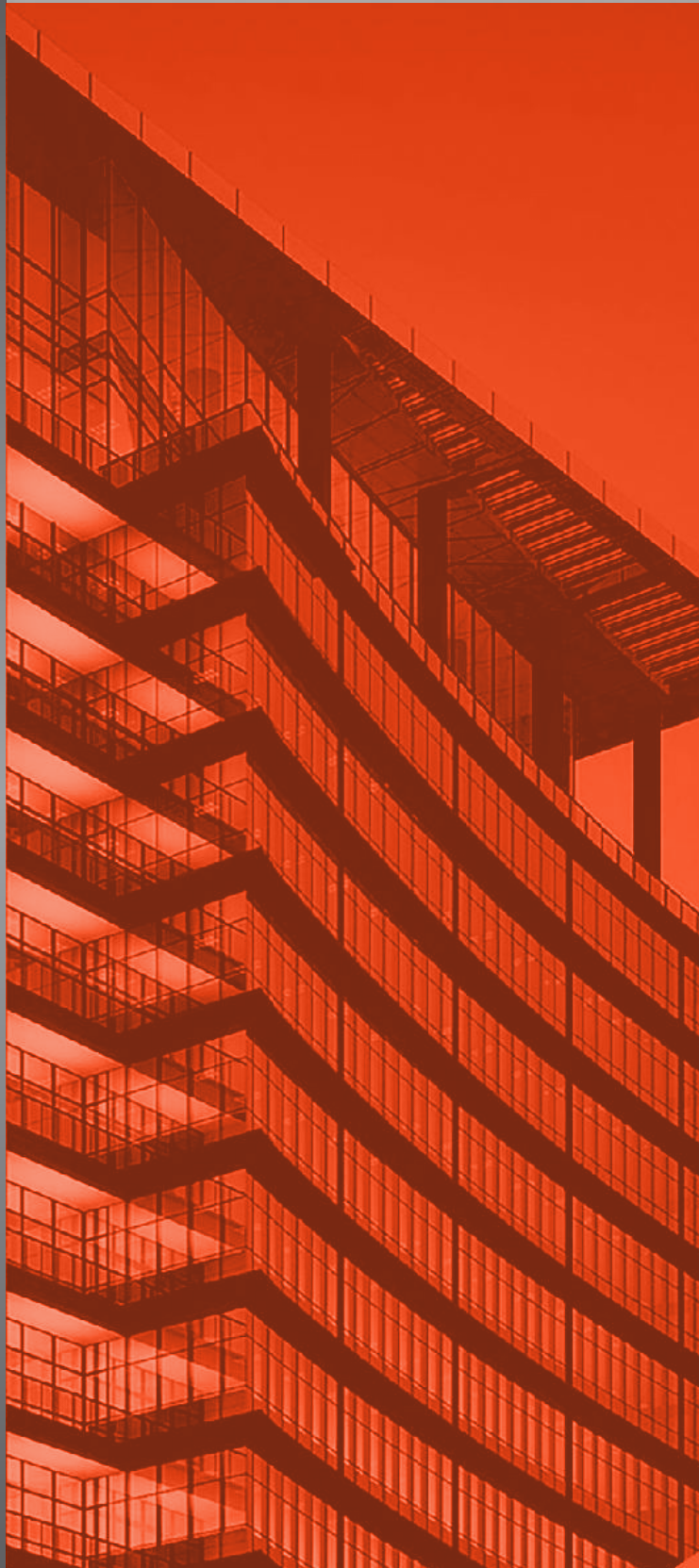


**TAFE**  
**POWER**

**GLOBAL  
POWER  
SOLUTIONS**





# TAFE POWER

On the occasion of its Diamond Jubilee in the year 2021, TAFE launched a new indomitable product range and another benchmark brand for the international markets - TAFE POWER.

TAFE's 60-years rich legacy combined with its expertise in manufacturing diesel engines for the Indian subcontinent, drives the TAFE POWER brand of Diesel Generators and Engines for Asia, Africa, Europe, Australia and the Americas. TAFE, through its subsidiary TAFE Motors and Tractors Limited (TMTL), has been one of the pioneers in manufacturing diesel engines in India. TMTL Engines has its origin in European engineering and technology, and currently being used as a prime mover for various applications such as tractors, power generation, construction equipment, agriculture equipment, marine applications and various pumping applications including firefighting, dewatering pumps etc.

TAFE, through TMTL, has technical collaboration with global players such as Ricardo Consulting (UK), AVL (Austria), Sisu Diesel and Valtra (Finland). TAFE POWER Diesel Generators have low operational expenses, high fuel efficiency and offer high value for money. The products adhere to prescribed safety norms and can be customized based on the application and requirement.





# WHY TAFE POWER?

- TAFE's manufacturing might and rich engineering expertise spanning over 60 years
- International product quality - Safe and highly customizable
- Strong base of over 1 Million satisfied users
- Deep understanding of Engines and Diesel Generators business
- Market leader in India, dominant player in the telecom industry
- Strong experience in building and managing global networks and alliances in over 100 countries
- Operating on principles of TQM, TPM, SGA, Kaizen to meet global standards of quality and productivity
- Best-in-class service and after-sales support

## HIGHLIGHTS

- International technology
- Low cost of ownership
- Long service interval
- Best-in-class service support
- Low cost of spare parts
- High fuel efficiency
- Rugged build quality
- Unmatched reliability
- Easy to maintain
- Customizable to requirement

## CUSTOM OPTIONS

- Special control panel options
- Super silent option ( $\leq 65$  db)
- Fuel tank size options
- Ready-to-use (RTU) diesel generator set
- Custom made options for telecom industry

# OUR LEGACY

TAFE - Tractors and Farm Equipment Limited, headquartered at Chennai, India, is an internationally reputed organization in the global agriculture machinery business, with an annual turnover in excess of US \$1.5 billion. The world's third largest tractor manufacturer by volumes and among the leading exporters of tractors from India, TAFE has been powering farms, hospitals, schools, infrastructure projects, small and large business organizations with its wide range of products and services.

A global tractor major and a multi-brand, multi-business conglomerate - TAFE has diversified business interests through its subsidiaries into farm machinery, diesel engines and generators, agriculture engines, engineering plastics, gears and transmission components, hydraulic pumps and cylinders, vehicle franchises and plantations. Driven by a leadership with purpose and vision, TAFE has earned the trust of customers through its range of products that are widely acclaimed for their high quality and low cost of operation. A strong distribution network across the globe effectively backs TAFE's promise of industry-best service and support.

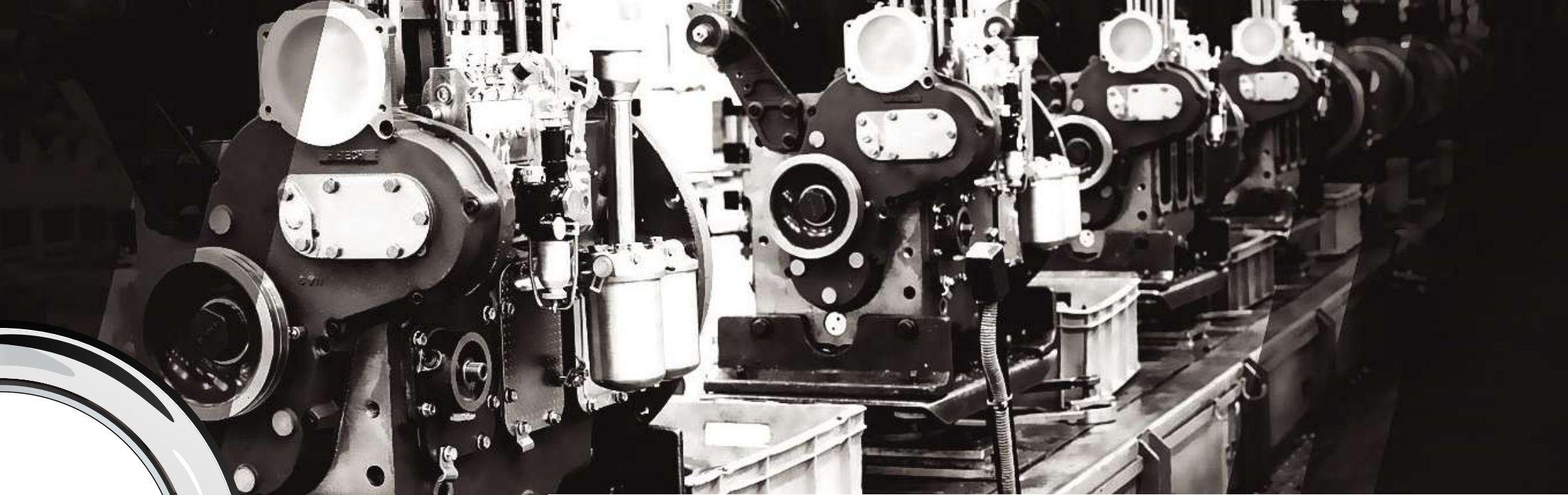
TAFE has been awarded the Engineering Export Promotion Council's (EEPC) Star Performer Award for outstanding contribution to Engineering Exports, Large Enterprise Category, for 21 consecutive years. TAFE is committed to the Total Quality Management (TQM). In the recent past, various manufacturing plants of TAFE have garnered numerous 'TPM Excellence Awards' from the Japan Institute of Plant Maintenance (JIPM), as well as a number of other regional awards for TPM excellence. TAFE became the first Indian tractor manufacturer to win the Frost & Sullivan Global Manufacturing Leadership Award in 2018, being recognized with the 'Enterprise Integration and Technology Leadership Award' and two 'Supply Chain Leadership Awards'. TAFE's plants are certified under ISO 9001 for efficient quality management systems, under ISO 14001 for environment friendly operations and ISO 45001 for occupational health and safety.

In the year 2005, TAFE acquired the legendary tractors, gears, transmissions and engines business from Eicher Motors Limited, which was widely popular for its original European Technology, to form TAFE Motors and Tractors Limited (TMTL), a wholly owned subsidiary of TAFE.

TMTL is a pioneer in manufacturing both air-cooled and liquid-cooled diesel engines in India, with a heritage of more than 60 years and manufactures specially designed engines for stationary and automotive applications. It has a strong presence in the retail, agriculture, telecom and industrial segments. Known for quality, technology and reliability, generators and engines from TMTL are eco-friendly with low emission levels, low carbon footprint and offer higher value for money.

TMTL has an existing base of over 1 Million highly satisfied customers. With over 700% volume growth in the last decade, it is one of the fastest growing engine manufacturing companies in India with a dominant market share in the telecom segment.

TMTL has won numerous awards in the recent years such as – The Most Admired Company of the Year (2021) by the World Leadership Congress and Awards, Outstanding Diesel Generators Brand of the Year (2019) by EPC World Media Group, India's Most Promising Brand (2017) by WCRC, Silver Award (2013) by Indus Towers for Excellence in Infra Equipment, etc. to name a few. With an emphasis to meet global standards of quality and productivity, TMTL employs quality management tools such as TQM, TPM, SGA and Kaizen extensively.



## DIESEL GENERATORS

Known for quality, technology and reliability, TAFE POWER Diesel Generators have low operational expenses, high fuel efficiency and offer superior value for money. They are safe, highly customizable and can be built based on the application and customer requirements. TMTL is one of the fastest growing businesses in the Indian industry, with a dominant market share in the telecom segment.

\*Product images and illustrations are for representation purposes only. Actual product colors and specifications may vary.



# TECHNICAL SPECIFICATION

|                                          | 5 kVA                                                               | 7.5 kVA                                                             | 10 kVA                                                              | 15 kVA                                                              | 20 kVA                                                              | 25 kVA                                                              | 30 - 35 kVA                                                         | 30 kVA                                                              | 40 - 45 kVA                                                         | 62.5 kVA                                                            | 82.5 kVA                                                            | 100 kVA                                                             | 125 kVA                                                             |
|------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|
| Model                                    | TAF-P-5A                                                            | TAF-P-7.5A                                                          | TAF-P-10A                                                           | TAF-P-15A                                                           | TAF-P-20A                                                           | TAF-P-25A                                                           | TAF-P-30A / TAF-P-35A                                               | TAF-P-30W                                                           | TAF-P-40W / TAF-P-45W                                               | TAF-P-62.5W                                                         | TAF-P-82.5W                                                         | TAF-P-100W                                                          | TAF-P-125W                                                          |
| Power                                    | 5 kVA                                                               | 7.5 kVA                                                             | 10 kVA                                                              | 15 kVA                                                              | 20 kVA                                                              | 25 kVA                                                              | 30-35 kVA                                                           | 30 kVA                                                              | 40-45 kVA                                                           | 62.5 kVA                                                            | 82.5 kVA                                                            | 100 kVA                                                             | 125 kVA                                                             |
| Duty                                     | Prime                                                               | Prime                                                               | Prime                                                               | Prime                                                               | Prime                                                               | Prime                                                               | Prime                                                               | Prime                                                               | Prime                                                               | Prime                                                               | Prime                                                               | Prime                                                               | Prime                                                               |
| Control Panel                            | Options Available for AMF / Manual Control                          | Options Available for AMF / Manual Control                          | Options Available for AMF / Manual Control                          | Options Available for AMF / Manual Control                          | Options Available for AMF / Manual Control                          | Options Available for AMF / Manual Control                          | Options Available for AMF / Manual Control                          | Options Available for AMF / Manual Control                          | Options Available for AMF / Manual Control                          | Options Available for AMF / Manual Control                          | Options Available for AMF / Manual Control                          | Options Available for AMF / Manual Control                          | Options Available for AMF / Manual Control                          |
| Acoustic Insulation                      | PU FR - Acoustic Foam                                               | PU FR - Acoustic Foam                                               | PU FR - Acoustic Foam                                               | PU FR - Acoustic Foam                                               | PU FR - Acoustic Foam                                               | PU FR - Acoustic Foam                                               | PU FR - Acoustic Foam                                               | PU FR - Acoustic Foam                                               | PU FR - Acoustic Foam                                               | PU FR - Acoustic Foam                                               | PU FR - Acoustic Foam                                               | PU FR - Acoustic Foam                                               | PU FR - Acoustic Foam                                               |
| Dimensions : Length<br>Breadth<br>Height | 1500 mm                                                             | 1500 mm                                                             | 1700 mm                                                             | 1700 mm                                                             | 1700 mm                                                             | 2050 mm                                                             | 2150 mm                                                             | 2150 mm                                                             | 2250 mm                                                             | 2500 mm                                                             | 3000 mm                                                             | 3000 mm                                                             | 3000 mm                                                             |
|                                          | 850 mm                                                              | 850 mm                                                              | 900 mm                                                              | 900 mm                                                              | 900 mm                                                              | 900 mm                                                              | 900 mm                                                              | 900 mm                                                              | 1000 mm                                                             | 1300 mm                                                             | 1300 mm                                                             | 1300 mm                                                             | 1300 mm                                                             |
|                                          | 1250 mm                                                             | 1250 mm                                                             | 1375 mm                                                             | 1275 mm                                                             | 1275 mm                                                             | 1275 mm                                                             | 1425 mm                                                             | 1425 mm                                                             | 1400 mm                                                             | 1575 mm                                                             | 1750 mm                                                             | 1750 mm                                                             | 1750 mm                                                             |
| Fuel Tank Capacity                       | 50 L                                                                | 50 L                                                                | 65 L                                                                | 80 L                                                                | 80 L                                                                | 100 L                                                               | 100 L                                                               | 80 L                                                                | 100 L                                                               | 125 L                                                               | 250 L                                                               | 250 L                                                               | 250 L                                                               |
| Weight                                   | 650 kg                                                              | 700 kg                                                              | 925 kg                                                              | 950 kg                                                              | 950 kg                                                              | 1050 kg                                                             | 1200 / 1225 kg                                                      | 1200 kg                                                             | 1270 / 1330 kg                                                      | 1470 kg                                                             | 1980 kg                                                             | 2000 kg                                                             | 2050 kg                                                             |
| ENGINE                                   |                                                                     |                                                                     |                                                                     |                                                                     |                                                                     |                                                                     |                                                                     |                                                                     |                                                                     |                                                                     |                                                                     |                                                                     |                                                                     |
| Engine Manufacturer                      | TAFE Motors and Tractors Limited                                    | TAFE Motors and Tractors Limited                                    | TAFE Motors and Tractors Limited                                    | TAFE Motors and Tractors Limited                                    | TAFE Motors and Tractors Limited                                    | TAFE Motors and Tractors Limited                                    | TAFE Motors and Tractors Limited                                    | TAFE Motors and Tractors Limited                                    | TAFE Motors and Tractors Limited                                    | TAFE Motors and Tractors Limited                                    | TAFE Motors and Tractors Limited                                    | TAFE Motors and Tractors Limited                                    | TAFE Motors and Tractors Limited                                    |
| Engine Brand                             | TAFE POWER                                                          | TAFE POWER                                                          | TAFE POWER                                                          | TAFE POWER                                                          | TAFE POWER                                                          | TAFE POWER                                                          | TAFE POWER                                                          | TAFE POWER                                                          | TAFE POWER                                                          | TAFE POWER                                                          | TAFE POWER                                                          | TAFE POWER                                                          | TAFE POWER                                                          |
| Engine Model                             | 198 ES                                                              | 198 ES                                                              | 222 ES                                                              | 322 ES                                                              | 323 ES                                                              | 422 ES                                                              | 422 TC                                                              | 461 ES                                                              | 621 ES                                                              | 881 ES                                                              | 1121 ES                                                             | 1401 ES                                                             | 1751 ES                                                             |
| Cylinders                                | 1                                                                   | 1                                                                   | 1                                                                   | 2                                                                   | 2                                                                   | 3                                                                   | 3                                                                   | 3                                                                   | 3                                                                   | 3                                                                   | 4                                                                   | 4                                                                   | 4                                                                   |
| Aspiration                               | Naturally Aspirated                                                 | Naturally Aspirated                                                 | Naturally Aspirated                                                 | Naturally Aspirated                                                 | Naturally Aspirated                                                 | Naturally Aspirated                                                 | Turbo Charged                                                       | Naturally Aspirated                                                 | Turbo Charged Inter-cooled                                          | Turbo Charged Inter-cooled                                          | Turbo Charged Inter-cooled                                          | Turbo Charged Inter-cooled                                          | Turbo Charged Inter-cooled                                          |
| Engine BHP (gross)                       | 11.5                                                                | 11.5                                                                | 18.7                                                                | 25.1                                                                | 25.7                                                                | 35.5                                                                | 48.2                                                                | 38.1                                                                | 59.1                                                                | 82.3                                                                | 102                                                                 | 128                                                                 | 160                                                                 |
| Displacement                             | 981 cc                                                              | 981 cc                                                              | 1557 cc                                                             | 1963 cc                                                             | 1963 cc                                                             | 2945 cc                                                             | 2945 cc                                                             | 3298 cc                                                             | 3298 cc                                                             | 3298 cc                                                             | 4910 cc                                                             | 4910 cc                                                             | 4910 cc                                                             |
| Compression Ratio                        | 17.5:1                                                              | 17.5:1                                                              | 17.5:1                                                              | 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                                                     | Mechanical / A1                                                     | Mechanical / A1                                                     | Mechanical / A1                                                     | Mechanical / A1                                                     | Mechanical / A1                                                     | Mechanical / A1                                                     | Mechanical / A1                                                     | Mechanical / A1                                                     | Mechanical / A1                                                     | Mechanical / A1                                                     | Mechanical / A1                                                     | Electronic / Isochronous                                            |
| Bore x Stroke                            | 100 x 125 mm                                                        | 100 x 125 mm                                                        | 115 x 150 mm                                                        | 100 x 125 mm                                                        | 100 x 125 mm                                                        | 100 x 125 mm                                                        | 100 x 125 mm                                                        | 108 x 120 mm                                                        | 108 x 120 mm                                                        | 108 x 120 mm                                                        | 108 x 134 mm                                                        | 108 x 134 mm                                                        | 108 x 134 mm                                                        |
| Type of Cooling                          | Air Cooled                                                          | Air Cooled                                                          | Air Cooled                                                          | Air Cooled                                                          | Air Cooled                                                          | Air Cooled                                                          | Air Cooled                                                          | Water Cooled                                                        | Water Cooled                                                        | Water Cooled                                                        | Water Cooled                                                        | Water Cooled                                                        | Water Cooled                                                        |
| Lub Oil Sump Capacity (With Filters)     | 5                                                                   | 5                                                                   | 7.5                                                                 | 8                                                                   | 8                                                                   | 9.5                                                                 | 9.5                                                                 | 7.1                                                                 | 7.1                                                                 | 8                                                                   | 15                                                                  | 15                                                                  | 18                                                                  |
| Engine Electrical System                 | 12 Volts DC                                                         | 12 Volts DC                                                         | 12 Volts DC                                                         | 12 Volts DC                                                         | 12 Volts DC                                                         | 12 Volts DC                                                         | 12 Volts DC                                                         | 12 Volts DC                                                         | 12 Volts DC                                                         | 12 Volts DC                                                         | 12 Volts DC                                                         | 12 Volts DC                                                         | 12 Volts DC                                                         |
| ALTERNATOR                               |                                                                     |                                                                     |                                                                     |                                                                     |                                                                     |                                                                     |                                                                     |                                                                     |                                                                     |                                                                     |                                                                     |                                                                     |                                                                     |
| Brand                                    | Stamford / Leroy Somer                                              | Stamford / Leroy Somer                                              | Stamford / Leroy Somer                                              | Stamford / Leroy Somer                                              | Stamford / Leroy Somer                                              | Stamford / Leroy Somer                                              | Stamford / Leroy Somer                                              | Stamford / Leroy Somer                                              | Stamford / Leroy Somer                                              | Stamford / Leroy Somer                                              | Stamford / Leroy Somer                                              | Stamford / Leroy Somer                                              | Stamford / Leroy Somer                                              |
| Phase                                    | 1 Phase / 3 Phase                                                   | 1 Phase / 3 Phase                                                   | 1 Phase / 3 Phase                                                   | 1 Phase / 3 Phase                                                   | 1 Phase / 3 Phase                                                   | 1 Phase / 3 Phase                                                   | 1 Phase / 3 Phase                                                   | 1 Phase / 3 Phase                                                   | 1 Phase / 3 Phase                                                   | 3 Phase                                                             | 3 Phase                                                             | 3 Phase                                                             | 3 Phase                                                             |
| Voltage                                  | 220, 230, 240 V AC / 380, 400, 415 V AC                             | 220, 230, 240 V AC / 380, 400, 415 V AC                             | 220, 230, 240 V AC / 380, 400, 415 V AC                             | 220, 230, 240 V AC / 380, 400, 415 V AC                             | 220, 230, 240 V AC / 380, 400, 415 V AC                             | 220, 230, 240 V AC / 380, 400, 415 V AC                             | 220, 230, 240 V AC / 380, 400, 415 V AC                             | 220, 230, 240 V AC / 380, 400, 415 V AC                             | 220, 230, 240 V AC / 380, 400, 415 V AC                             | 380, 400, 415 V AC                                                  | 380, 400, 415 V AC                                                  | 380, 400, 415 V AC                                                  | 380, 400, 415 V AC                                                  |
| Power Alternator Type                    | Single Bearing, Brushless, Single / Three Phase, Insulation Class H | Single Bearing, Brushless, Single / Three Phase, Insulation Class H | Single Bearing, Brushless, Single / Three Phase, Insulation Class H | Single Bearing, Brushless, Single / Three Phase, Insulation Class H | Single Bearing, Brushless, Single / Three Phase, Insulation Class H | Single Bearing, Brushless, Single / Three Phase, Insulation Class H | Single Bearing, Brushless, Single / Three Phase, Insulation Class H | Single Bearing, Brushless, Single / Three Phase, Insulation Class H | Single Bearing, Brushless, Single / Three Phase, Insulation Class H | Single Bearing, Brushless, Single / Three Phase, Insulation Class H | Single Bearing, Brushless, Single / Three Phase, Insulation Class H | Single Bearing, Brushless, Single / Three Phase, Insulation Class H | Single Bearing, Brushless, Single / Three Phase, Insulation Class H |
| Power Factor                             | 0.8 lag                                                             | 0.8 lag                                                             | 0.8 lag                                                             | 0.8 lag                                                             | 0.8 lag                                                             | 0.8 lag                                                             | 0.8 lag                                                             | 0.8 lag                                                             | 0.8 lag                                                             | 0.8 lag                                                             | 0.8 lag                                                             | 0.8 lag                                                             | 0.8 lag                                                             |
| Rated Speed / Frequency                  | 1500 RPM, 50 Hz                                                     | 1500 RPM, 50 Hz                                                     | 1500 RPM, 50 Hz                                                     | 1500 RPM, 50 Hz                                                     | 1500 RPM, 50 Hz                                                     | 1500 RPM, 50 Hz                                                     | 1500 RPM, 50 Hz                                                     | 1500 RPM, 50 Hz                                                     | 1500 RPM, 50 Hz                                                     | 1500 RPM, 50 Hz                                                     | 1500 RPM, 50 Hz                                                     | 1500 RPM, 50 Hz                                                     | 1500 RPM, 50 Hz                                                     |

\*Product images and illustrations are for representation purpose only. Actual product colors and specifications may vary.  
Genset Models with 1800 RPM rated speed and 60 Hz frequency also available

# FEATURES & BENEFITS

## ENGINE

|                                       |                                                                                                                                |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Cutting edge technology               | Best-in-class fuel efficiency<br>Low maintenance<br>Longer oil change period<br>Longer overhauling period<br>Highly economical |
| A1 governing                          | Quality of power<br>No power fluctuation                                                                                       |
| High moment of inertia and torque     | Best-in-class block loading capability<br>Better performance at varying load                                                   |
| Individual blowers (Air-cooled range) | Even cooling of all cylinders<br>Better efficiency                                                                             |
| Turbocharger with intercooler         | Better engine efficiency                                                                                                       |
| Most reliable engines                 | Prime power rating available across range<br>Most powerful engines in their class                                              |

## ACOUSTIC ENCLOSURE

|                                                                                                                                                                                   |                                                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Fully automated powder coating process                                                                                                                                            | Longer life<br>All-weather-proof canopy                                                  |
| High density PU FR foam<br>Durable and efficient AVM pads                                                                                                                         | Thickest in its class<br>Low noise and vibration level<br>Super silent options available |
| Silencer inside the canopy                                                                                                                                                        | Better aesthetics<br>Longer life of silencer                                             |
| Compact size                                                                                                                                                                      | Smaller footprint<br>Suitable for rooftop installation                                   |
| Large doors on both sides<br>Drain provided for lube oil and fuel tank                                                                                                            | Ease of maintenance                                                                      |
| Unitary front and back panel<br>Canopy with internal bolting<br>Die cast hinges with studs<br>Black powder coated slam lock arrangement<br>Provision for battery lock arrangement | Higher degree of safety<br>Pilferage proof product<br>Strong and sturdy                  |
| Central lifting arrangement<br>Forklift pockets                                                                                                                                   | Ease of logistics and handling                                                           |