

# POWERING THE GROWTH JOURNEY OF THE NATION

**CPCB IV+** Range - 525 kVA - 650 kVA



Optimum Fuel  
Consumption



Fastest Response  
to Load Changes



Best Diagnostics



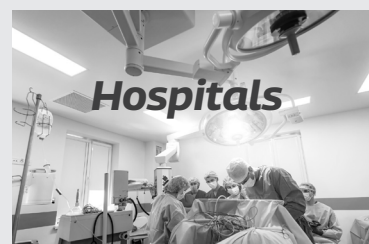
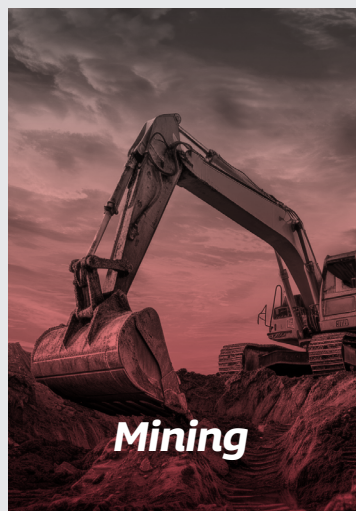
Reliable

## ABOUT POWEROL

Year 2002. Mahindra and Mahindra entered the field of power generation through its engines under the brand name Mahindra Powerol. The same engines are today propelling Diesel Generating Sets ranging from 5kVA to 1250kVA. Mahindra Powerol is also widely acclaimed for its fuel efficiency and quick customer response. It's a name trusted by leading players in industries like telecom & retail, among others.

Within a short span of time, Mahindra Powerol has garnered immense customer trust which shows its level of commitment and customer centric approach. Presently, more than 600,000 Powerol gensets are powering different industries and applications in Indian and overseas markets. Mahindra Powerol, through its technology & service has taken giant strides in the engine and genset industry. In a little over a decade, it has also expanded its footprint to South East Asia, Far East, Middle East, Africa and Europe.

APPLICATIONS



**Best-in-class  
Fuel Efficiency**



**Reliable Power  
Delivery**



**Remote  
Monitoring**



**World Class  
Product Support**

# GENSET MODEL

Model **525 | 650**

Frequency 50Hz 50Hz

kVA Rating 420kVA 520kVA



## GENSET SPECIFICATIONS 525 kVA | 650 kVA



**Voltage**  
415V



**Phase**  
3



**Power Factor**  
0.8 lagging



**Rated Speed**  
1500 RPM



**DG set  
Noise level  
at 1 mtr**

**≤ 75dB @1 mtr  
dbA**



### Overall dimensions

Length	Width	Height	Height including silencer
5800 mm	2200 mm	2300 mm	4095 mm
5800 mm	2200 mm	2300 mm	4095 mm

## CONSUMPTION

- **\* Fuel consumption at 100% Load**  
525: 206 g/kWh  
650: 196 g/kWh
- **\* Fuel consumption at 75% Load**  
525: 207 g/kWh  
650: 199 g/kWh
- **\* Fuel consumption at 50% Load**  
525: 206 g/kWh  
650: 207 g/kWh
- **Lube oil consumption -**  
0.4% of fuel consumption
- **Fuel Tank Capacity - 990Lts**
- **Lube oil charge period - 500Hrs**

## ENGINE MODEL

2806FA-E18TAG1 | 2806FA-E18TAG2

	2806FA-E18TAG1	2806FA-E18TAG2
<b>Rated output (prime power rating as per ISO 3046)</b>	451 kW 605 HP	556 kW 746 HP
<b>Rated Speed</b>	1500 RPM	1500 RPM
<b>No. of cylinders</b>	6	6
<b>Engine configuration</b>	6 inline	6 inline
<b>Bore x stroke</b>	145 x 183 mm	145 x 183 mm
<b>Displacement (Cubic capacity)</b>	18.1 Lts	18.1 Lts
<b>Aspiration</b>	TCAC	TCAC
<b>Compression Ratio</b>	16:01	16:01
<b>Firing order (Starting from flywheel end)</b>	1-5-3-6-2-4	1-5-3-6-2-4
<b>Overall dimensions (LxWxH) incl. flywheel &amp; excl. radiator</b>	1430 x 1805 x 993 mm	1430 x 1805 x 993 mm
<b>Block loading capacity</b>	<b>2806FA-E18TAG1</b> 55 % of prime within ISO8528-5 class G2	<b>2806FA-E18TAG2</b> 50 % of prime within ISO8528-5 class G2

## LUBE OIL SYSTEM

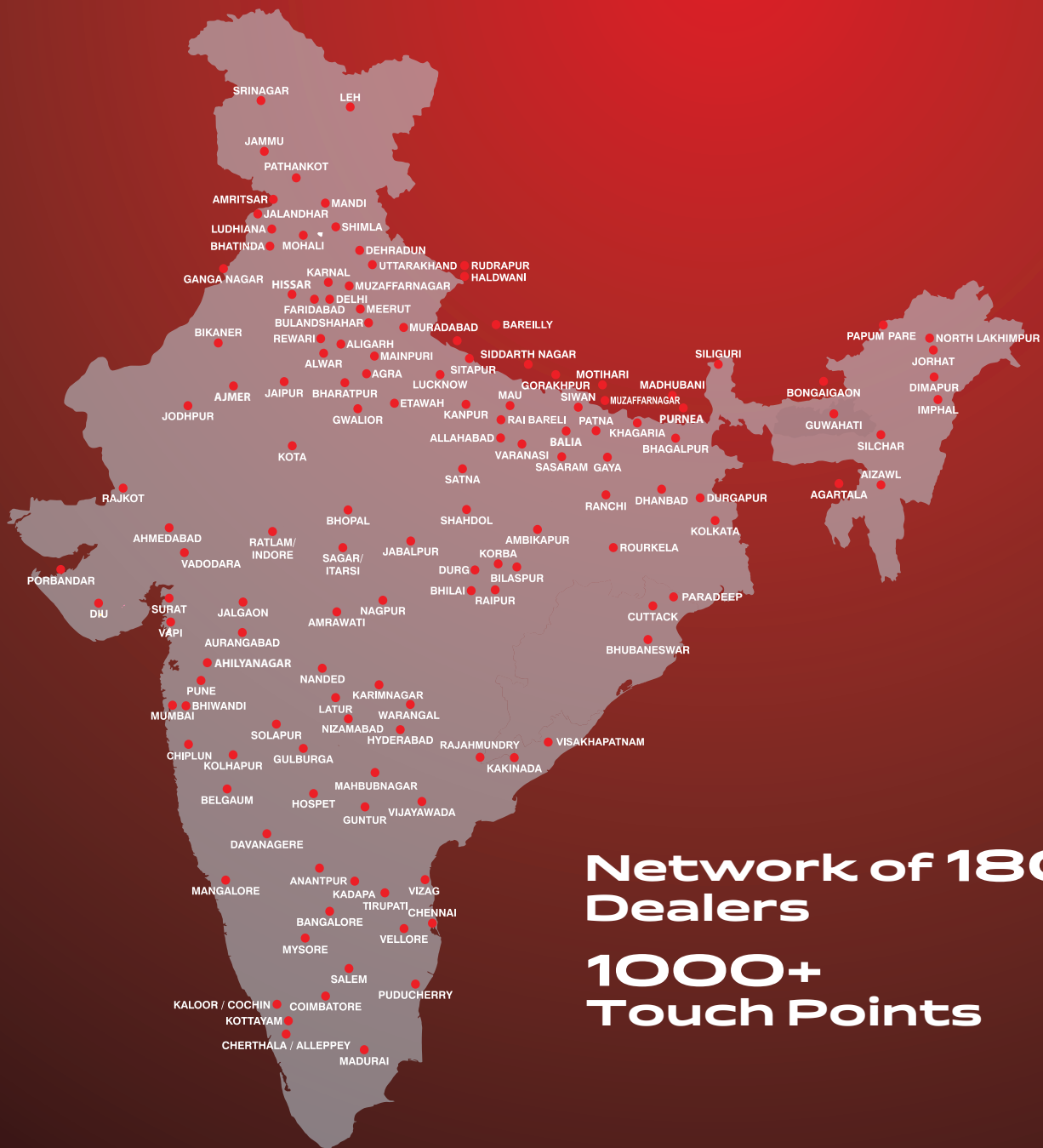


<b>Recommended Lube oil grade</b>	<b>15W-40</b>
<b>Lube oil sump capacity (Max)</b>	<b>74 Ltr</b>
<b>Lube oil sump capacity (Mini)</b>	<b>59 Ltr</b>
<b>Lube oil change period</b>	<b>500 Hrs</b>

## ALTERNATOR



<b>Make</b>	<b>CG/LS/Equivalent</b>
<b>Enclosure</b>	<b>IP23</b>
<b>Voltage</b>	<b>±1%</b>
<b>Insulation Class</b>	<b>CG/LS/Equivalent</b>
<b>Maximum Unbalanced load</b>	<b>25%</b>



**Network of 180+ Dealers**  
**1000+ Touch Points**



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