Mahindra Rise.

powerol by Mahindra

TECHNOLOGY MEETS EFFICIENCY

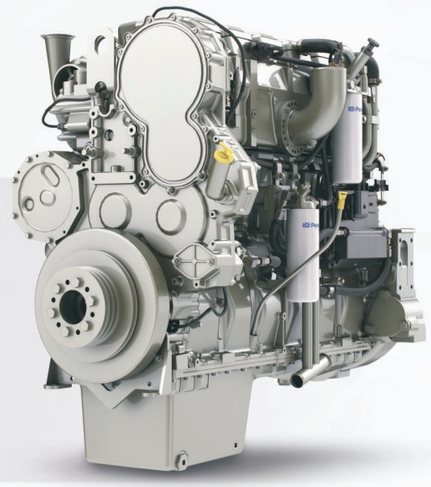
Mahindra Powerol Diesel Gensets

Presenting
400, 500, 625 kVA
Genset

Powered by

Perkins®
Diesel Power

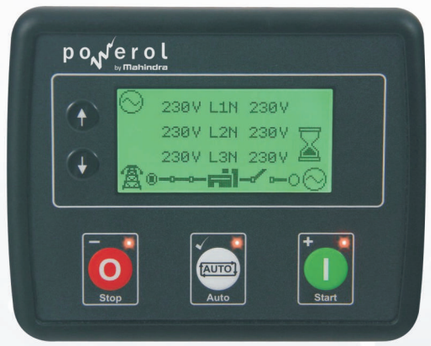
400, 500 & 625 kVA Gensets
Features and Benefits



Advanced Engine
- MEUI technology for better fuel efficiency and emission
- Excellent transient response capability
- Equipped with ADEM 4 system for better diagnostics and troubleshooting capabilities
- High block loading capacity makes it suitable for heavy duty applications
- Multi-stage air filter helps in smooth functining even in dusty conditions

Genset Controller
Premium controller that delivers accurate metering, best in class protection for optimum genset performance. With Genset controller, the genset is always protected against breakdowns from electrical or mechanical flaws and thereby ensures maximum uptime.

Key features
- Compatible with Auto Mains Failure facility / AMF ready
- 500 event log memory storage
- Comes with RS 485 port for modbus communication as standard scope
- Activation time delay for oil pressure, coolant temperature, voltage and frequency faults
- Routine maintenance & service alerts
- 7 configurable inputs and 4 DC outputs
- Sleep mode
- Remote start & stop facility
- Engine run time scheduler



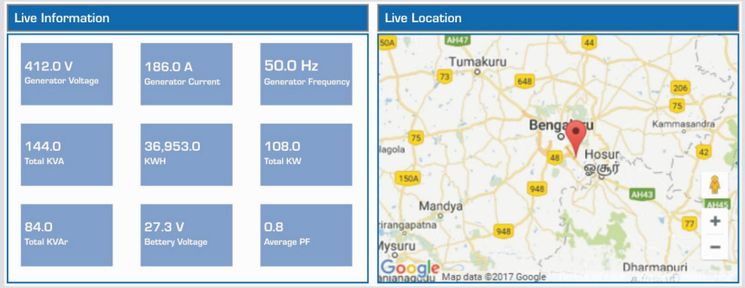
Genset Monitoring (Key Parameters)
- Generator/load power (kW, kVA, kVAr, pf), generator/load current, battery voltage.
- RPM, running hours, oil pressure, engine temperature and fuel level

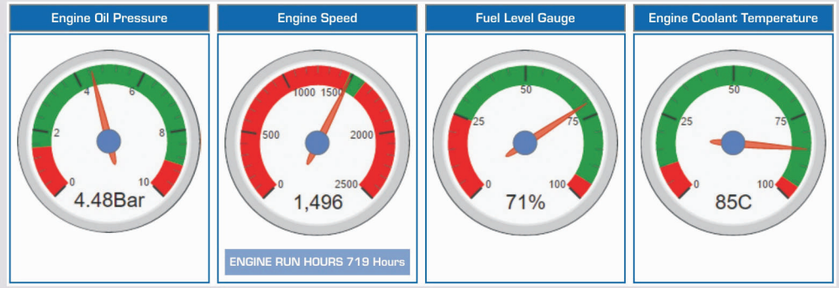
Genset Protection (Key Parameters)
- High engine temperature, low oil pressure, engine over/under speed,
- Over current, over/under voltage, Charging alternator low voltage
- Engine overload protection

Smart DG DiGi SENSE by Mahindra

Mahindra's DiGi-SENSE technology makes possible monitoring of all the critical performance parameters anytime from anywhere. It is an end to end ecosystem that connects product and customers over a cloud platform. This helps in better diagnostics of the genset for pro-active maintenance and thereby improving uptime of the genset.

Important features:
- Live information of critical genset performance parameters through Dashboard
- Real-time alerts and notifications
- Scheduled maintenance reminders over SMS and E mail
- Analytical reports for performance check





Alternator
- Brushless type, screen protected, revolving field, self-excited alternator conforming to IS/IEC 60034-1
- 3 Phase reconnect type winding with 12 terminals brought out for connection
- Superior winding for harmonic reduction
- High non-linear load capability
- Epoxy coating for consistent performance in all weather conditions.
- Better transient response capability
- 2/3 pitch winding for 3rd harmonic elimination

Acoustic Enclosure
- Use of latest CFD, CAE & NVH tools in design
- Designed to operate in extreme climatic conditions in temperatures ranging from - 10 °C. to 55 °C. without any external aid.
- Superlative fade resistant paint can last longer in tough weather conditions.
- Draw out type fuel tank for easy maintenance
- Fire retardant acoustic and insulation material for better safety.

Optional Accessories
PMG alternator, Space Heater, RTD/BTD, Coolant / Oil heater, Synchronization. For more details kindly contact our authorised representative

Sales & Service Network
- Wide and efficient network to serve you faster and better.
- Over 400 sales and service touch points across India

Support is just a call away
Our customer care centre is equipped with the latest software for monitoring & time bound escalation till closure of the complaints. To make it simpler for our customers, a common Toll free number is available for both sales and service support.

Technical Specifications:

Genset Specification			
Genset Prime Rating (kVA)*	400	500	625
Genset Prime Rating (KW)	320	400	500
Phase / Voltage (V)	3 / 415		
Power Factor	0.8 (lagging)		
Current (A)	556	695	869
Frequency (Hz & RPM)	50/1500		
Governing class	G2 as per ISO 8528 Part V	G2 as per ISO 8528 Part V	G2 as per ISO 8528 Part V
Starting system	24 V DC Electrical		
Fuel tank capacity (lit)	750		900
Genset dimensions w/o silencer (mm) (L x W x H) approx.	5000 x 1900 x 2350		5950 x 2000 x 2350
Genset Weight (kg) approx.	5200	5800	7500
Engine Specification			
Make / Series	Perkins		
Engine Model	2206D-E13TAG3	2506D-E15TAG2	2806D-E18TAG 1A
Rated Power at 100% Load @ 1500 RPM (kW)	367	453	540
Aspiration	Turbo Charged After Cooled		
No. of cylinders	6		
Bore x Stroke (mm)	130*157	137*171	145*183
Displacement (lit)	12.5	15.2	18.1
Fuel consumption @ 75% load (lit/hr) ^	65.5	78.6	97
Fuel consumption @ 100% load (lit/hr) ^	90.5	101	130
Total lubrication system capacity (lit)	40	62	71
Lube oil consumption @ 100% load$	0.10% of Fuel Consumption		
Lube oil change period (hrs.)		500	
Radiator coolant capacity (lit)	51.4	48	55.6
Alternator Specification			
Enclosure Type	IP23		
Voltage regulation	±1%		
Class of insulation	Class H		
Maximum Unbalanced Load across Phases	25%		

Above specifications are subject to change without prior notice due to continuous product improvements. All engines & alternators confirm to respective IS standards. All the genset specifications are as per ISO 8528 standard. Fuel - High Speed Diesel (HSD IS 1460:2005). ^ Considering 0.850 specific gravity of diesel 5% tolerance. $ Considering 0.89 specific gravity of oil. * For Standby duty, contact Powerol authorized representative. All specifications are at standard NTP operating conditions. All the above gensets conform to the latest CPCB norms of <75 dbA

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