

HOW TO KEEP YOUR BUILDING RUNNING WITHOUT POWEROL WITHOUT INTERRUPTIONS

Presenting **CPCB IV+ Compliant Gensets**



RANGE: 250kVA to 320kVA



Low Maintenance



400 Sales & Service Touch Points



Product Life Cycle Support



Best-in-class Fuel Efficiency



Superior Performance



Excellent Block Loading Capacity



IoT Feature

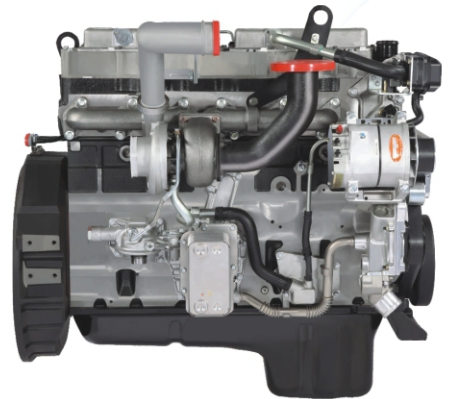
Product Salient Feature

- Low operating & maintenance cost with service interval of 500Hrs/1 Year
- Wide Service Support Network across PAN India
- Supply to various rugged applications
- Proven engine in industry
- CPCB IV+ Complaint
- Remote Monitoring System as a standard feature
- Single Window Warranty Policy
- Sales, Service, Spares, Warranty under one umbrella
- Low foot print
- Standard warranty of 2 Years/5000 Hours whichever is earlier for complete genset
- 5C Warranty for 5 Years//5000 Hours whichever is earlier



Engine

- Mahindra Electronical Engine, 6 Cylinder In-Line 4 stroke, radiator cooled engine
- CRDI engine with Low fuel consumption
- Dry type air cleaner with service indicator
- First fill of lube oil, coolant & DEF
- Electrical starter motor with soft start system
- Battery charging alternator
- 2 No.'s X 12 Volts DC battery



Alternator

- Brushless type, screen protected, revolving field,
- Self-excited alternator conforming to IS/IEC 60034-1
- A reliable long life with superior class 'H' insulation
- Higher motor starting capability.
- Better transient response
- Ease of maintenance with integrated components and outboard Exciter/Rotating Rectifier
- Lighter and more compact with sealed bearings for lesser maintenance and longer life



Controller

- SEDEMAC GC111X is a powerful ARM microprocessor based genset monitoring, metering and control system with full graphics LCD display for easy front panel access
- AMF, manual and remote start / stop modes for 1-ph & 3-ph gensets
- Backlit and full graphics display with power saving feature
- Engine parameter monitoring -Lube oil pressure, Engine coolant temperature, Fuel level, Battery voltage, Engine running hours
- AC Alternator parameter monitoring -Voltage L-N & LL, Current, kW, kVA (Phase & Total), Frequency, kWh, PF
- Genset Protection:
 - Engine: Low lube oil pressure, High coolant temperature, Battery/High/Low Volts, Fail to Start, Sensor failure, Low fuel level,
 - Over speed AC Alternator: Over/Under Voltage, Over/Under Frequency, Loss of AC sensing, Over frequency, Over Current, kW Overload, Unbalancing load
- Maintenance notification based on Engine Run Hour & due date
- Communication: USB port, RS485, CAN
- Fully configurable via front panel



Acoustic Enclosure

- Specially designed to meet stringent MoEF/ CPCB norms
- Designed to operate in extreme climatic conditions in temperatures ranging from -10 deg to 55 deg 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 (PU Foam/Rockwool) for better safety
- Lowest foot print
- Easy access for serviceable parts
- Pretreatment process with UV resistant powder coating of all parts
- After Treatment System (ATS) for Emission compliance
- Engine and alternator are mounted on a common MS fabricated base frame with AVm pads
- Ease in fuel filling (Outside Canopy)



Control Panel

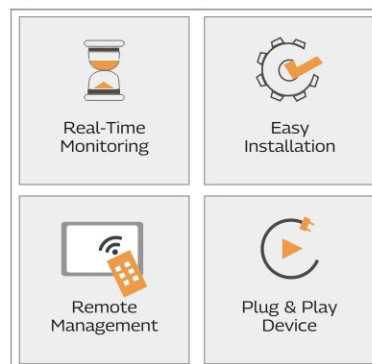
- Powder Coated Control Panel for weather-proof and long lasting finish. The control panel consists of the following parts:
- SEDEMAC GC111X Controller
- Power Cable/ Bus bars with suitable capacity with incoming/ outgoing terminals
- Indicating lamps for 'Load ON' and 'Set Running'
- Fuses/MCB's for control circuit safety protection
- MCCB of suitable rating with short circuit protections
- Battery Charger

Optional Accessories

- Cold Starting System (Temperature range up to -20 deg.)
- AMF/ATS/Sync. Controller/Sync. Panel
- PMG Alternator, Space heater, RTD/BTD

Remote Monitoring System

- Powerol generators are equipped with Real time remote monitoring system.
- Generator owners can monitor and diagnose their genset or entire fleet of generators from anywhere, anytime ensuring good health and efficiency of the generator.
- All these critical indication alerts & notifications are sent to user mobile or PC
- The generator sets can be monitored using the available web application and mobile (Android and iOS) application from any PC or mobile across the globe.





Technical Specifications:

Genset Rating (kVA)	250	320
DG Model	M250DR	M320DR
Power Rating (kWe)	200	256
No. of Phases	3	3
Output Voltage (V)	415	415
Power Factor (lagging)	0.8	0.8
Current (A) (1Phase / 3Phase)	348	445
Frequency (Hz)/ RPM	50/1500	50/1500
Governing Class	G3	G3
Starting System	24 Volt DC	24 Volt DC
Fuel Tank Capacity (lit)	425	578
Genset Dimension (LxWxH ^{SS}) (mm) Approx.	4750X 1600 X 2000	4750X 1600 X 2000

Engine Specification

Make	Mahindra	Mahindra
Model	H693561	H693562
Fuel system	Electronic	Electronic
Rated Power Output* (HP)	310	390
Aspiration	Turbocharged & Intercooled	Turbocharged & Intercooled
No. of Cylinders	6	6
Bore x Stroke (mm)	116.6 x 146.1	116.6 x 146.1
Displacement (Ltr)	9.3	9.3
Lube Oil Specification	SAE 15W40 CI4+	SAE 15W40 CI4+
Total Lube Oil capacity (lit)	35	35
Lube Oil Change Period (hrs.)	500Hrs	500Hrs
Radiator Coolant Capacity (lit)	31	31

Alternator Specification

Make	CG/LS/EQUIVELENT	CG/LS/EQUIVELENT
Enclosure Type	IP23	IP23
Voltage Regulation	+/- 1%	+/- 1%
Class of Insulation	H	H
Maximum Unbalanced load across Phases	25%	25%

Notes:

Above specifications are subject to change without prior notice due to continuous product improvements | All engines & alternators conform to respective IS standards
 All the genset specifications conform to ISO 8528 standard | All Specifications are at Standard NTP operating conditions | ^ Considering 0.845 Specific Gravity of diesel, +5 % Tolerance |
 # Engine Power at 110 % load Fuel -High Speed diesel (HSD IS 1460:2005) | * Represent the Standby Ratings | \$ Considering 0.89 Specific Gravity of Oil Engine Power will have ± 5 % Tolerance |
 ** For CG only 3 Phase Configuration available | \$\$ Height Without Silencer



Low Fuel Consumption



Low Ownership Cost



Long Life Reliable

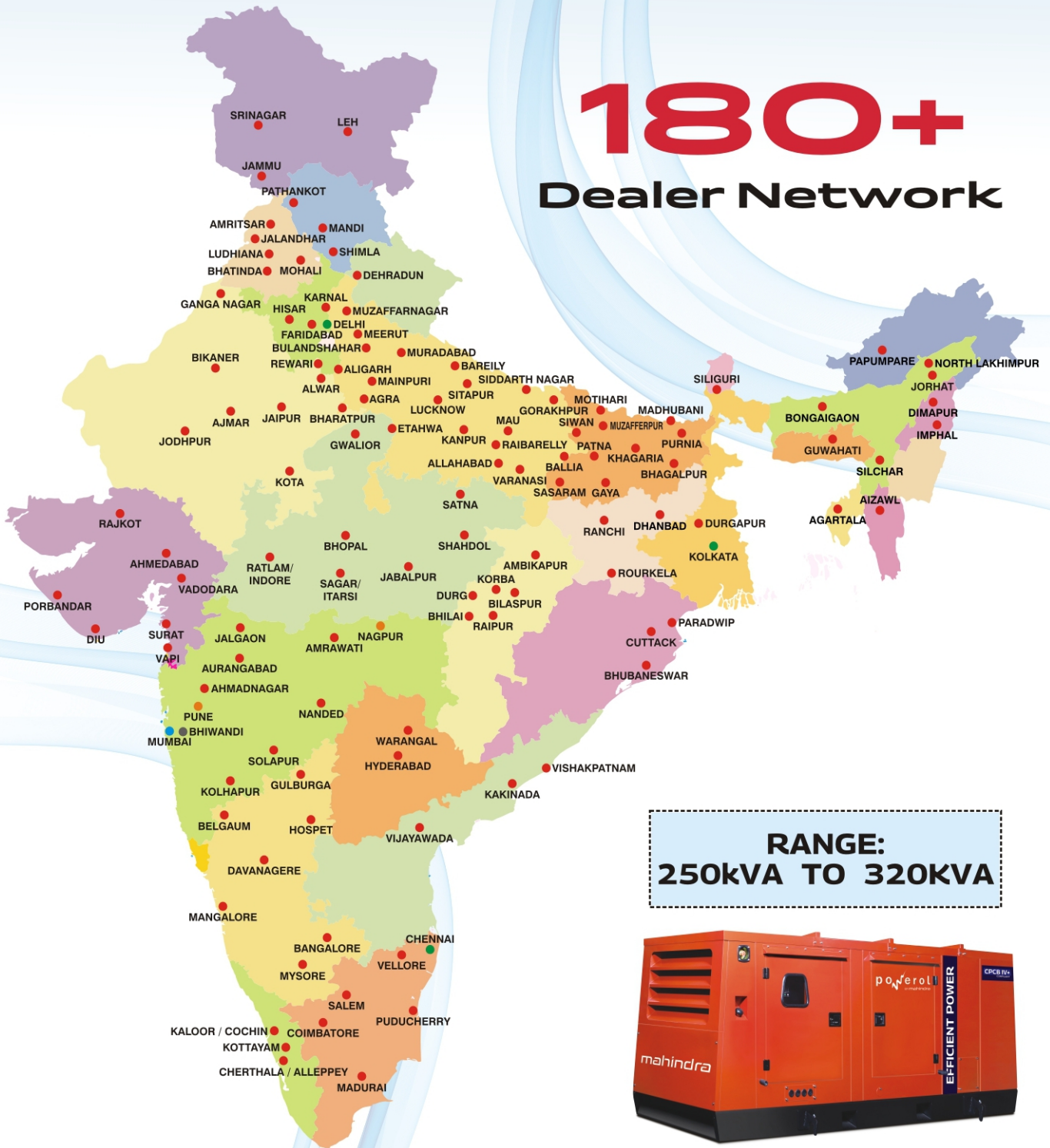


Easy Serviceability



180+

Dealer Network



**RANGE:
250kVA TO 320KVA**



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