

HOW TO RUN YOUR PUMP WITHOUT POWER

WITHOUT LOSING A SINGLE CUSTOMER

Presenting **CPCB IV+** Compliant Gensets



RANGE: 10kVA TO 20KVA



Low Maintenance



400 Sales & Service Touch Points



Product Life Cycle Support



Best-in-class Fuel Efficiency



Superior Performance



Excellent Block Loading Capacity



IOT Feature

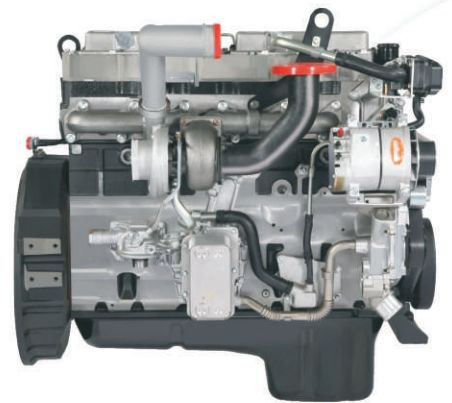
Product Salient Feature

- 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
- 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



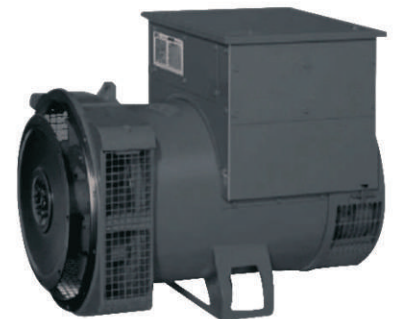
Engine

- Mahindra Mechanical Engine, In-Line 4 stroke, radiator cooled engine
- Low fuel consumption with Inline fuel pump
- Dry type air cleaner with service indicator
- First fill of lube oil & coolant
- Electrical starter motor with soft start system
- Battery charging alternator
- 1 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 LN & 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
- A special Residential silencer is provided to control exhaust noise & emission
- Engine and alternator are mounted on a common MS fabricated base frame with AVM pads
- Ease in fuel filling (Outside Canopy)



Control Panel

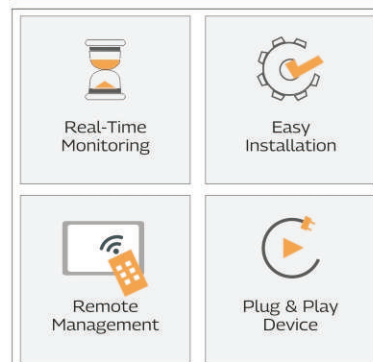
- Powder Coated Control Panel for weather-proof and long lasting finish. The control panel consists of the following parts:
- SEDEMAC GC111X Controller
- Power Cable/ Bus bars with suitable capacity with incoming/ outgoing terminals
- Indicating lamps for 'Load ON' and 'Set Running'
- Fuses/MCB's for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

Optional Accessories

- Remote Monitoring System
- 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)	10	*15	15	*20
DG Model	M10DR	MB15DR	M15DR	MB20DR
Power Rating (kWe)	8	12	12	16
No. of Phases	1/3	1/3	1/3	1/3
Output Voltage (V)	230/415	230/415	230/415	230/415
Power Factor (lagging)	0.8	0.8	0.8	0.8
Current (A) (1Phase / 3Phase)	43.5/13.9	65.2/20.9	65.2/20.9	87/27.8
Frequency (Hz)/ RPM	50/1500	50/1500	50/1500	50/1500
Governing Class	G2	G2	G2	G2
Starting System	12 Volt DC	12 Volt DC	12 Volt DC	12 Volt DC
Fuel Tank Capacity (lit)	55	55	75	75
Genset Dimension (LxWxH ^{SS}) (mm) Approx.	1750 X 900 X 1250	1750 X 900 X 1250	1990 X 900 X 1330	1990 X 900 X 1330
Engine Specification				
Make	Mahindra	Mahindra	Mahindra	Mahindra
Model	M2155G1	M2115G2	M3205G1	M3205G2
Fuel system	Mechanical	Mechanical	Mechanical	Mechanical
Rated Power Output [#] (HP)	16.3	18.3	22.7	25.2
Aspiration	Naturally Aspirated	Naturally Aspirated	Naturally Aspirated	Naturally Aspirated
No. of Cylinders	2	2	3	3
Bore x Stroke (mm)	88.9 x 120	88.9 x 120	88.9 x 110	88.9 x 110
Displacement (Ltr)	1.5	1.5	2.0	2.0
Lube Oil Specification	SAE 15W40 CI4+	SAE 15W40 CI4+	SAE 15W40 CI4+	SAE 15W40 CI4+
Total Lube Oil capacity (lit)	5	5	6.2	6.2
Lube Oil Change Period (hrs.)	500Hrs	500Hrs	500Hrs	500Hrs
Radiator Coolant Capacity (lit)	5.5	5.5	5.5	5.5
Alternator Specification				
Make	LS/CG	LS/CG	LS/CG	LS/CG
Enclosure Type	IP23	IP23	IP23	IP23
Volatge Regulation	+/- 1%	+/- 1%	+/- 1%	+/- 1%
Class of Insulation	H	H	H	H
Maximum Unbalanced load across Phases	25%	25%	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



**RANGE:
10kVA TO 20KVA**



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BY mahindra

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