mahindra Rise

powerol BY mahindra

A STEP AHEAD OF YOUR POWER NEEDS

Presenting CPCB IV+ Compliant Gensets

RANGE: 75kVA TO 200KVA

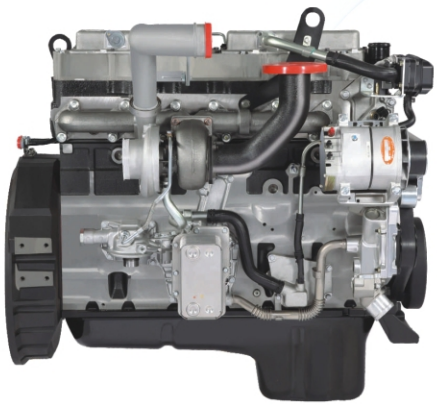
- Low Maintenance
- 400 Sales & Service Touch Points
- Product Life Cycle Support
- Best-in-class Fuel Efficiency
- Superior Performance
- Excellent Block Loading Capacity
- IOT Featuer

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, 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
- 1 X 12 Volts DC battery

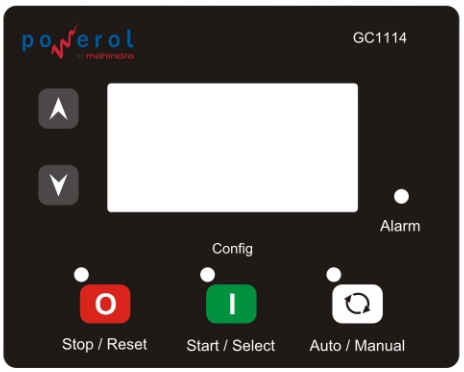


Alternator

- 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 transiant 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
- 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)	75	82.5	100	125
DG Model	M75DR	M82.5DR	M100DR	M125DR
Power Rating (kWe)	60	66	80	100
No. of Phases	3	3	3	3
Output Voltage (V)	415	415	415	415
Power Factor (lagging)	0.8	0.8	0.8	0.8
Current (A) (1Phase / 3Phase)	104.3	114.8	139	174
Frequency (Hz)/ RPM	50/1500	50/1500	50/1500	50/1500
Governing Class	G3	G3	G3	G3
Starting System	12 Volt DC	12 Volt DC	12 Volt DC	12 Volt DC
Fuel Tank Capacity (lit)	169	169	250	250
Genset Dimension (LxWxH $^{\$\$}$) (mm) Approx.	3190X 1225 X 1575	3190X 1225 X 1575	3950 X 1350 X 1425	3950 X 1350 X 1425
Engine Specification				
Make	Mahindra	Mahindra	Mahindra	Mahindra
Model	**M4335G3**	**V4355G4**	**H4485G2**	**H4485G1**
Fuel system	Electronic	Electronic	Electronic	Electronic
Rated Power Output$^{\#}$ (HP)	93.7	101.3	126	156
Aspiration	Turbocharged & Intercooled	Turbocharged & Intercooled	Turbocharged & Intercooled	Turbocharged & Intercooled
No. of Cylinders	4	4	4	4
Bore x Stroke (mm)	96 x 122	96 x 122	105 X 137	105 X 137
Displacement (Ltr)	3.5	3.5	4.8	4.8
Lube Oil Specification	SAE 15W40 CI4+	SAE 15W40 CI4+	SAE 15W40 Ci4+	SAE 15W40 Ci4+
Total Lube Oil capacity (lit)	11.5	11.5	13.5	13.5
Lube Oil Change Period (hrs.)	500Hrs	500Hrs	500Hrs	500Hrs
Radiator Coolant Capacity (lit)	19	19	19	19
Alternator Specification				
Make	LS/CG	LS/CG	LS/CG/Equivalent	LS/CG/Equivalent
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 I All engines & alternators conform to respective IS standards
All the genset specifications conform to ISO 8528 standard I All Specifications are at Standard NTP operating conditions I ^ Considering 0.845 Specific Gravity of diesel, +5 % Tolerance I
Engine Power at 110 % load Fuel -High Speed diesel (HSD IS 1460:2005) I * Represent the Standby Ratings I $ Considering 0.89 Specific Gravity of Oil Engine Power will have ± 5 % Tolerance I
** For CG only 3 Phase Configuration available I $$ Height Without Silencer

Low Fuel Consumption
Low Ownership Cost
Long Life Reliable
Easy Serviceability

160	180	200
M160DR	M180DR	M200DR
128	144	160
3	3	3
415	415	415
0.8	0.8	0.8
222	250	278
50/1500	50/1500	50/1500
G3	G3	G3
12 Volt DC	12 Volt DC	12 Volt DC
388	388	388
4200 X 1400 X 1745	4200 X 1400 X 1745	4200 X 1400 X 1745
Mahindra	Mahindra	Mahindra
H6725G2	**H6725G3**	**H6725G4**
Electronic	Electronic	Electronic
199	223	247
Turbocharged & Intercooled	Turbocharged & Intercooled	Turbocharged & Intercooled
6	6	6
105 X 137	105 X 137	105 X 137
7.2	7.2	7.2
SAE 15W40 Ci4+	SAE 15W40 Ci4+	SAE 15W40 Ci4+
20.2	20.2	20.2
500Hrs	500Hrs	500Hrs
25	24	25
LS/CG/Equivalent	CG/LS/Equivalent	LS/CG/Equivalent
IP23	IP23	IP23
+/- 1%	+/- 1%	+/- 1%
H	H	H
25%	25%	25%

RANGE: 75kVA TO 200KVA

powerol BY mahindra

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JAN 24