



# POWERING THE GROWTH JOURNEY OF THE NATION

High Performance Gensets are now

**CPCBIV + Compliant**

*Presenting*  
**10 kVA -  
320 kVA**



Range available for all Diesel & Gas Gensets



Low  
Maintenance



400 Sales & Service  
Touch Points



Product Life  
Cycle Support



Best-in-class  
fuel efficiency



Superior  
performance



Excellent block  
loading capacity



IOT  
Feature

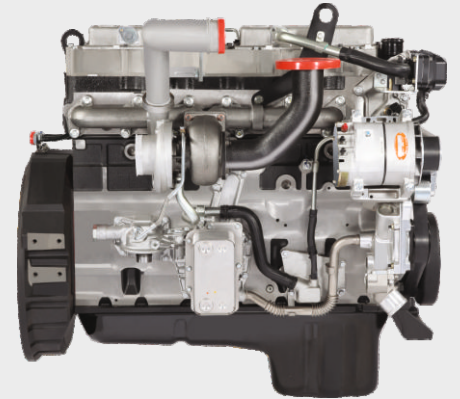
## Product Salient Feature

- 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



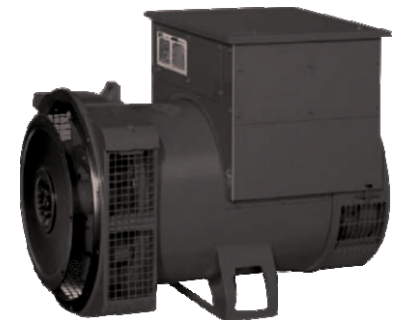
## Engine

- Mahindra Electronic 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



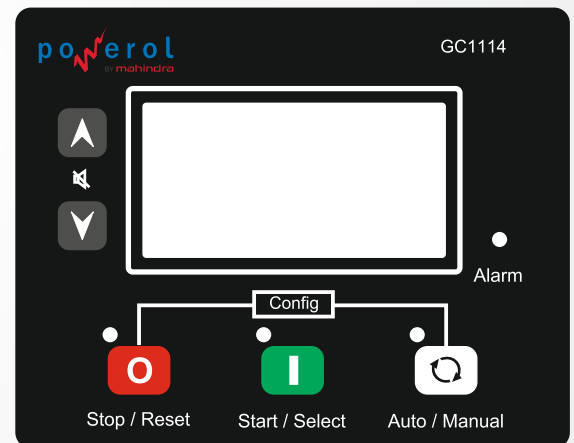
## Alternator

- 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 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 & L\_L,
- 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, Overspeed
  - AC Alternator:Over/Under Voltage, Over/Under Frequency, Loss of AC sensing, Overfrequency, 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 fue tank for easy maintenance
- Fire retardant acoustic and insulation material (PU Foam/Rockwool) for better safety
- Lowest foot print
- Easy access for servicable parts
- Pretreatment process with UV resistant powder coating of all parts
- After Treatment System (ATS) for Emmision 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 longlasting 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 upto -20 deg.)
- AMF/ATS/ Sync. Controller/ Sync. Panel
- PMG Alternator, Space heater, RTD/ BT D

## Applications



Clinics



Industries



Residences



Small Offices



TECHNICAL SPECIFICATION

Genset Rating (kVA)	10	*15
DG Model	M10DR	MB15DR
Power Rating (kWe)	8	12
No. of Phases	1/3	1/3
Output Voltage (V)	230/415	230/415
Power Factor (lagging)	0.8	0.8
Current (A) (1Phase / 3Phase)	43.5/13.9	65.2/20.9
Frequency (Hz)/ RPM	50/1500	50/1500
Governing Class	G2	G2
Starting System	12 V DC electrical	12 V DC electrical
Fuel Tank Capacity (lit)	55	55
Genset Dimension (LxWxH \$\$\$) (mm) Approx.	1750 X 900 X 1250	1750 X 900 X 1250
Engine Specification		
Make	Mahindra	Mahindra
Model	M2155G1	M2155G2
Fuel System	Mechanical	Mechanical
Rated Power Output# (HP)	16.3	18
Aspiration	Naturally Aspirated	Naturally Aspirated
No. of Cylinders	2	2
Bore x Stroke (mm)	88.9 x 120	88.9 x 120
Displacement (Ltr)	1.5	1.5
Lube Oil Specification	SAE 15W40 CI4+	SAE 15W40 CI4+
Total Lube Oil capacity (lit)	5	5
Lube Oil Change Period (hrs.)	600Hrs	600Hrs
Radiator Coolant Capacity (lit)	5.5	5.5
Alternator Specification		
Make	LS/CG	LS/CG
Enclosure Type	IP23	IP23
Volatge Regulation	+/- 1%	+/- 1%
Class of Insulation	H	H
Maximum Unbalanced load across Phases	25%	25%



Low Fuel Consumption



Low Ownership Cost



Long Life Reliable



Easy Serviceability

TECHNICAL SPECIFICATION

<b>Genset Rating (kVA)</b>	<b>15</b>	<b>*20</b>
DG Model	M15DR	MB20DR
Power Rating (kWe)	12	16
No. of Phases	1/3	1/3
Output Voltage (V)	230/415	230/415
Power Factor (lagging)	0.8	0.8
Current (A) (1Phase / 3Phase)	65.2/20.9	87/27.8
Frequency (Hz)/ RPM	50/1500	50/1500
Governing Class	G2	G2
Starting System	12 V DC electrical	12 V DC electrical
Fuel Tank Capacity (lit)	75	75
Genset Dimension (LxWxH \$\$) (mm) Approx.	1990 X 900 X 1330	1990 X 900 X 1330
<b>Engine Specification</b>		
Make	Mahindra	Mahindra
Model	M3205G1	M3205G2
Fuel System	Mechanical	Mechanical
Rated Power Output# (HP)	22.7	25.2
Aspiration	Naturally Aspirated	Naturally Aspirated
No. of Cylinders	3	3
Bore x Stroke (mm)	88.9 x 110	88.9 x 110
Displacement (Ltr)	2.0	2.0
Lube Oil Specification	SAE 15W40 CI4+	SAE 15W40 CI4+
Total Lube Oil capacity (lit)	6.2	6.2
Lube Oil Change Period (hrs.)	600Hrs	600Hrs
Radiator Coolant Capacity (lit)	5.5	5.5
<b>Alternator Specification</b>		
Make	LS/CG	LS/CG
Enclosure Type	IP23	IP23
Volatge 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

TECHNICAL SPECIFICATION

<b>Genset Rating (kVA)</b>	<b>20</b>	<b>25*</b>
DG Model	M20DR	MB25DR
Power Rating (kWe)	16	20
No. of Phases	1/3	1/3
Output Voltage (V)	230/415	230/415
Power Factor (lagging)	0.8	0.8
Current (A) (1Phase / 3Phase)	97.8 / 31.3	108.7/34.8
Frequency (Hz)/ RPM	50/1500	50/1500
Governing Class	G3	G3
Starting System	12 V DC electrical	12 V DC electrical
Fuel Tank Capacity (lit)	75	75
Genset Dimension (LxWxH \$\$) (mm) Approx.	1990 X 900 X 1330	1990 X 900 X 1330
<b>Engine Specification</b>		
Make	Mahindra	Mahindra
Model	M3205G3	M3205G3
Fuel System	Electronic	Electronic
Rated Power Output# (HP)	30.5	30.5
Aspiration	Turbocharged	Turbocharged
No. of Cylinders	3	3
Bore x Stroke (mm)	88.9 x 110	88.9 x 110
Displacement (Ltr)	2.0	2.0
Lube Oil Specification	SAE 15W40 CI4+	SAE 15W40 CI4+
Total Lube Oil capacity (lit)	7	7
Lube Oil Change Period (hrs.)	600Hrs	600Hrs
Radiator Coolant Capacity (lit)	5.5	5.5
<b>Alternator Specification</b>		
Make	LS/CG	LS/CG
Enclosure Type	IP23	IP23
Volatge Regulation	+/- 1%	+/- 1%
Class of Insulation	H	H
Maximum Unbalanced load across Phases	25%	25%

- Considering 0.845 Specific Gravity of diesel, +5 % Tolerance
- 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
- Height Without Silencer

TECHNICAL SPECIFICATION

<b>Genset Rating (kVA)</b>	<b>25</b>	<b>30</b>
DG Model	M25DR	M30DR
Power Rating (kWe)	20	24
No. of Phases	1/3	1/3
Output Voltage (V)	230/415	230/415
Power Factor (lagging)	0.8	0.8
Current (A) (1Phase / 3Phase)	108.7/34.8	130.4/ 41.7
Frequency (Hz)/ RPM	50/1500	50/1500
Governing Class	G3	G3
Starting System	12 V DC electrical	12 V DC electrical
Fuel Tank Capacity (lit)	75	115
Genset Dimension (LxWxH \$\$\$) (mm) Approx.	1990 X 900 X 1330	2325 X 980 X 1330
<b>Engine Specification</b>		
Make	Mahindra	Mahindra
Model	M3205G4	M3205G5
Fuel System	Electronic	Electronic
Rated Power Output# (HP)	35.1	40.0
Aspiration	Turbocharged	Turbocharged & Intercooled
No. of Cylinders	3	3
Bore x Stroke (mm)	88.9 x 110	88.9 x 110
Displacement (Ltr)	2.0	2.0
Lube Oil Specification	SAE 15W40 CI4+	SAE 15W40 CI4+
Total Lube Oil capacity (lit)	7	7
Lube Oil Change Period (hrs.)	600Hrs	600Hrs
Radiator Coolant Capacity (lit)	9.5	9.5
<b>Alternator Specification</b>		
Make	LS/CG	LS/CG
Enclosure Type	IP23	IP23
Volatge Regulation	+/- 1%	+/- 1%
Class of Insulation	H	H
Maximum Unbalanced load across Phases	25%	25%

TECHNICAL SPECIFICATION

<b>Genset Rating (kVA)</b>	<b>*35</b>	<b>40</b>
DG Model	MB35DR	M40DR
Power Rating (kWe)	28	32
No. of Phases	1/3	1/3
Output Voltage (V)	230/415	230/415
Power Factor (lagging)	0.8	0.8
Current (A) (1Phase / 3Phase)	152.2 / 48.7	173.9 / 55.6
Frequency (Hz)/ RPM	50/1500	50/1500
Governing Class	G3	G3
Starting System	12 V DC electrical	12 V DC electrical
Fuel Tank Capacity (lit)	115	115
Genset Dimension (LxWxH \$\$) (mm) Approx.	2325 X 980 X 1330	2325 X 980 X 1330
<b>Engine Specification</b>		
Make	Mahindra	Mahindra
Model	M3205G5	M4275G1
Fuel System	Electronic	Electronic
Rated Power Output# (HP)	40.0	51.8
Aspiration	Turbocharged & Intercooled	Turbocharged & Intercooled
No. of Cylinders	3	4
Bore x Stroke (mm)	88.9 x 110	88.9 X 110
Displacement (Ltr)	2.0	2.7
Lube Oil Specification	SAE 15W40 CI4+	SAE 15W40 CI4+
Total Lube Oil capacity (lit)	7	10.5
Lube Oil Change Period (hrs.)	600Hrs	600Hrs
Radiator Coolant Capacity (lit)	9.5	9.5
<b>Alternator Specification</b>		
Make	LS/CG	LS/CG
Enclosure Type	IP23	IP23
Volatge Regulation	+/- 1%	+/- 1%
Class of Insulation	H	H
Maximum Unbalanced load across Phases	25%	25%

TECHNICAL SPECIFICATION

<b>Genset Rating (kVA)</b>	<b>*45</b>	<b>50</b>
DG Model	MB45DR	M50DR
Power Rating (kWe)	36	40
No. of Phases	1/3	3
Output Voltage (V)	230/415	415
Power Factor (lagging)	0.8	0.8
Current (A) (1Phase / 3Phase)	195.7/62.6	69.6
Frequency (Hz)/ RPM	50/1500	50/1500
Governing Class	G3	G3
Starting System	12 V DC electrical	12 V DC electrical
Fuel Tank Capacity (lit)	115	156
Genset Dimension (LxWxH \$\$) (mm) Approx.	2325 X 980 X 1330	2600 X 1130 X 1575
<b>Engine Specification</b>		
Make	Mahindra	Mahindra
Model	M4275G1	V4355G1
Fuel System	Electronic	Electronic
Rated Power Output# (HP)	51.8	65.4
Aspiration	Turbocharged & Intercooled	Turbocharged & Intercooled
No. of Cylinders	4	4
Bore x Stroke (mm)	88.9 X 110	96 x 122
Displacement (Ltr)	2.7	3.5
Lube Oil Specification	SAE 15W40 CI4+	SAE 15W40 CI4+
Total Lube Oil capacity (lit)	10.5	8.5
Lube Oil Change Period (hrs.)	600Hrs	600Hrs
Radiator Coolant Capacity (lit)	9.5	15
<b>Alternator Specification</b>		
Make	LS/CG	LS/CG
Enclosure Type	IP23	IP23
Volatge Regulation	+/- 1%	+/- 1%
Class of Insulation	H	H
Maximum Unbalanced load across Phases	25%	25%

TECHNICAL SPECIFICATION

<b>Genset Rating (kVA)</b>	<b>58.5</b>	<b>75</b>
DG Model	M58.5DR	M75DR
Power Rating (kWe)	46.8	60
No. of Phases	3	3
Output Voltage (V)	415	415
Power Factor (lagging)	0.8	0.8
Current (A) (1Phase / 3Phase)	81.3	104.3
Frequency (Hz)/ RPM	50/1500	50/1500
Governing Class	G3	G3
Starting System	12 V DC electrical	12 V DC electrical
Fuel Tank Capacity (lit)	156	169
Genset Dimension (LxWxH \$\$\$) (mm) Approx.	2600 X 1130 X 1575	3190X 1225 X 1575
<b>Engine Specification</b>		
Make	Mahindra	Mahindra
Model	V4355G2	V4355G3
Fuel System	Electronic	Electronic
Rated Power Output# (HP)	75.5	101.3
Aspiration	Turbocharged & Intercooled	Turbocharged & Intercooled
No. of Cylinders	4	4
Bore x Stroke (mm)	96 x 122	96 x 122
Displacement (Ltr)	3.5	3.5
Lube Oil Specification	SAE 15W40 CI4+	SAE 15W40 CI4+
Total Lube Oil capacity (lit)	8.5	11.5
Lube Oil Change Period (hrs.)	600Hrs	600Hrs
Radiator Coolant Capacity (lit)	15	19
<b>Alternator Specification</b>		
Make	LS/CG	LS/CG
Enclosure Type	IP23	IP23
Volatge Regulation	+/- 1%	+/- 1%
Class of Insulation	H	H
Maximum Unbalanced load across Phases	25%	25%

TECHNICAL SPECIFICATION

<b>Genset Rating (kVA)</b>	<b>82.5</b>	<b>100</b>
DG Model	M82.5DR	M100DR
Power Rating (kWe)	66	80
No. of Phases	3	3
Output Voltage (V)	415	415
Power Factor (lagging)	0.8	0.8
Current (A) (1Phase / 3Phase)	114.8	139
Frequency (Hz)/ RPM	50/1500	50/1500
Governing Class	G3	G3
Starting System	12 V DC electrical	12
Fuel Tank Capacity (lit)	169	250
Genset Dimension (LxWxH \$\$\$) (mm) Approx.	3190X 1225 X 1575	3950 X 1350 X 1425
<b>Engine Specification</b>		
Make	Mahindra	Mahindra
Model	V4355G4	H4485G2
Fuel System	Electronic	Electronic
Rated Power Output# (HP)	101.3	126
Aspiration	Turbocharged & Intercooled	TCIC
No. of Cylinders	4	4
Bore x Stroke (mm)	96 x 122	105 X 137
Displacement (Ltr)	3.5	4.7
Lube Oil Specification	SAE 15W40 CI4+	SAE 15W40 CI4+
Total Lube Oil capacity (lit)	11.5	13.5
Lube Oil Change Period (hrs.)	600Hrs	500Hrs
Radiator Coolant Capacity (lit)	19	19
<b>Alternator Specification</b>		
Make	LS/CG	LS/CG/Equivalent
Enclosure Type	IP23	IP23
Volatge Regulation	+/- 1%	+/- 1%
Class of Insulation	H	H
Maximum Unbalanced load across Phases	25%	25%

TECHNICAL SPECIFICATION

<b>Genset Rating (kVA)</b>	<b>125</b>	<b>160</b>
DG Model	M125DR	M160DR
Power Rating (kWe)	100	128
No. of Phases	3	3
Output Voltage (V)	415	415
Power Factor (lagging)	0.8	0.8
Current (A) (1Phase / 3Phase)	174	222
Frequency (Hz)/ RPM	50/1500	50/1500
Governing Class	G3	G3
Starting System	12	12
Fuel Tank Capacity (lit)	250	388
Genset Dimension (LxWxH \$\$\$) (mm) Approx.	3950 X 1350 X 1425	4201 X 1400 X 1745
<b>Engine Specification</b>		
Make	Mahindra	Mahindra
Model	H4485G1	H6725G2
Fuel System	Electronic	Electronic
Rated Power Output# (HP)	156	199
Aspiration	TCIC	TCIC
No. of Cylinders	4	6
Bore x Stroke (mm)	105 X 137	105 X 137
Displacement (Ltr)	4.7	7.2
Lube Oil Specification	SAE 15W40 CI4+	SAE 15W40 CI4+
Total Lube Oil capacity (lit)	13.5	20.2
Lube Oil Change Period (hrs.)	500Hrs	500Hrs
Radiator Coolant Capacity (lit)	19	25
<b>Alternator Specification</b>		
Make	LS/CG/Equivalent	LS/CG/Equivalent
Enclosure Type	IP23	IP23
Volatge Regulation	+/- 1%	+/- 1%
Class of Insulation	H	H
Maximum Unbalanced load across Phases	25%	25%

TECHNICAL SPECIFICATION

<b>Genset Rating (kVA)</b>	<b>180</b>	<b>200</b>
DG Model	M180DR	M200DR
Power Rating (kWe)	144	160
No. of Phases	3	3
Output Voltage (V)	415	415
Power Factor (lagging)	0.8	0.8
Current (A) (1Phase / 3Phase)	250	278
Frequency (Hz)/ RPM	50/1500	50/1500
Governing Class	G3	G3
Starting System	12	12
Fuel Tank Capacity (lit)	388	388
Genset Dimension (LxWxH \$\$\$) (mm) Approx.	4201 X 1400 X 1745	4201 X 1400 X 1745
<b>Engine Specification</b>		
Make	Mahindra	Mahindra
Model	H6725G3	H6725G4
Fuel System	Electronic	Electronic
Rated Power Output# (HP)	223	247
Aspiration	TCIC	TCIC
No. of Cylinders	6	6
Bore x Stroke (mm)	105 X 137	105 X 137
Displacement (Ltr)	7.2	7.2
Lube Oil Specification	SAE 15W40 CI4+	SAE 15W40 CI4+
Total Lube Oil capacity (lit)	20.2	20.2
Lube Oil Change Period (hrs.)	500Hrs	500Hrs
Radiator Coolant Capacity (lit)	24	24
<b>Alternator Specification</b>		
Make	CG/LS/Equivalent	CG/LS/Equivalent
Enclosure Type	IP23	IP23
Volatge Regulation	+/- 1%	+/- 1%
Class of Insulation	H	H
Maximum Unbalanced load across Phases	25%	25%

TECHNICAL SPECIFICATION

<b>Genset Rating (kVA)</b>	<b>250</b>	<b>320</b>
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	24
Fuel Tank Capacity (lit)	425	570
Genset Dimension (LxWxH \$\$\$) (mm) Approx.	4750 X 1600 X 2000	4750 X 1600 X 2000
<b>Engine Specification</b>		
Make	Mahindra Heavy engines ltd	Mahindra Heavy engines ltd
Model	H6935G1	H6935G2
Fuel System	Electronic	Electronic
Rated Power Output# (HP)	310	390
Aspiration	TCIC	TCIC
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	15W40 Ci4+	15W40 Ci4+
Total Lube Oil capacity (lit)	35	35
Lube Oil Change Period (hrs.)	500Hrs	500Hrs
Radiator Coolant Capacity (lit)	31	45
<b>Alternator Specification</b>		
Make	CG/LS/Equivalent	CG/LS/Equivalent
Enclosure Type	IP23	IP23
Volatge Regulation	+/- 1%	+/- 1%
Class of Insulation	H	H
Maximum Unbalanced load across Phases	25%	25%



**ARRC**  
POWER SOLUTIONS

**ARRC POWER SOLUTIONS PVT. LTD.**

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