

POWERING THE GROWTH JOURNEY OF THE NATION

High Performance Gensets are now

Presenting **CPCB IV+** Compliant Gensets



Range available for all Diesel & Gas Gensets
10kVA 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
Featurer

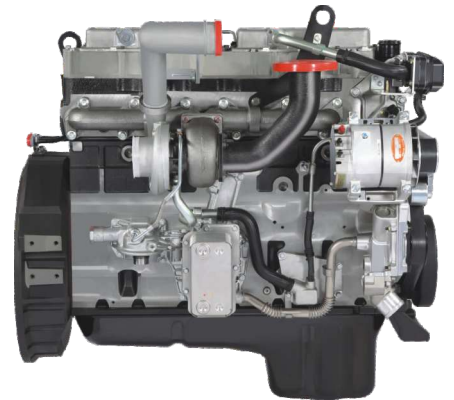
Product Salient Feature

- 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 footprint
- >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



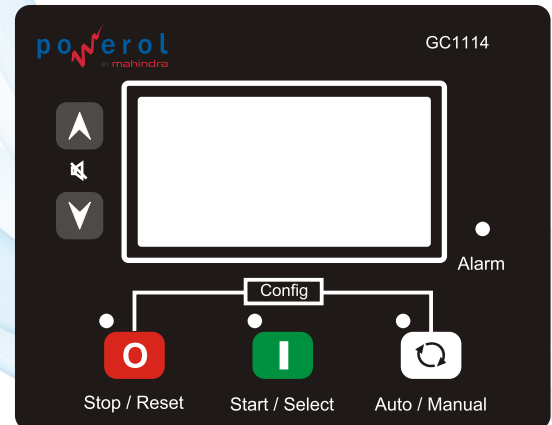
Alternator

- 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, 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:
- SEDEMACGC111X 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/BTD

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.)	500 Hrs	500 Hrs
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

Genset Rating (kVA)	15	*20
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
Engine Specification		
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.)	500 Hrs	500 Hrs
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%

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

Genset Rating (kVA)	20	*25
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
Engine Specification		
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.)	500 Hrs	500 Hrs
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%

- 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

Genset Rating (kVA)	25	30
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	75
Genset Dimension (LxWxH \$\$) (mm) Approx.	1990 X 900 X 1330	2325 X 980 X 1330
Engine Specification		
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.)	500 Hrs	500 Hrs
Radiator Coolant Capacity (lit)	9.5	9.5
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%

TECHNICAL SPECIFICATION

Genset Rating (kVA)	*35	40
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
Engine Specification		
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.)	500 Hrs	500 Hrs
Radiator Coolant Capacity (lit)	9.5	9.5
Alternator Specification		
Make	LS/CG	LS/CG
Enclosure Type	IP23	IP23
Voltage Regulation	+/- 1%	+/-1%
Class of Insulation	H	H
Maximum Unbalanced load across Phases	25%	25%

TECHNICAL SPECIFICATION

Genset Rating (kVA)	*45	50
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)	195.2/62.6	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	115
Genset Dimension (LxWxH \$\$) (mm) Approx.	2325 X 980 X 1330	2600 X 1130 X 1575
Engine Specification		
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.)	500 Hrs	500 Hrs
Radiator Coolant Capacity (lit)	9.5	15
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%

TECHNICAL SPECIFICATION

Genset Rating (kVA)	58.5	75
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	3190 X 1225 X 1575
Engine Specification		
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.)	500 Hrs	500 Hrs
Radiator Coolant Capacity (lit)	15	19
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%

TECHNICAL SPECIFICATION

Genset Rating (kVA)	82.5	100
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.	3190 X 1225 X 1575	3950 X 1350 X 1425
Engine Specification		
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.)	500 Hrs	500 Hrs
Radiator Coolant Capacity (lit)	19	19
Alternator Specification		
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

Genset Rating (kVA)	125	160
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
Engine Specification		
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.)	500 Hrs	500 Hrs
Radiator Coolant Capacity (lit)	19	25
Alternator Specification		
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

Genset Rating (kVA)	180	200
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
Engine Specification		
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.)	500 Hrs	500 Hrs
Radiator Coolant Capacity (lit)	24	24
Alternator Specification		
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

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	24
Fuel Tank Capacity (lit)	425	570
Genset Dimension (LxWxH \$\$) (mm) Approx.	4750 X 1600 X 2000	4750 X 1600 X 2000
Engine Specification		
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.)	500 Hrs	500 Hrs
Radiator Coolant Capacity (lit)	31	45
Alternator Specification		
Make	CG/LS/Equivalent	CG/LS/Equivalent
Enclosure Type	IP23	IP23
Voltage Regulation	+/-1%	+/-1%
Class of Insulation	H	H
Maximum Unbalanced load across Phases	25%	25%



Mahindra & Mahindra Ltd.

Mahindra Powerol
MHEL, 1st Floor, Gate No. 12, A-1/1,
Talawade Chakan Rd, Chakan Industrial Area,
Phase-IV, Nigoje, Maharashtra, 410501.

Local Contact

Toll free no.: 1800 419 1999 | Email: poweroldg@mahindra.com | www.mahindrapowerol.com