

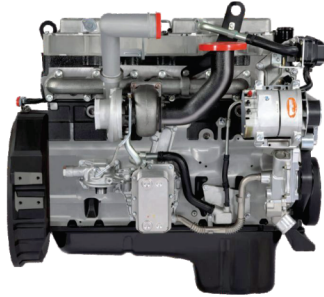
Product Salient Feature

- 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+ Compliant
- Single Window Warranty Policy
- Sales, Service, Spares, Warranty under one umbrella
- Low footprint
- Standard warranty of 2 Years/5000 Hours (whichever is earlier) on complete genset
- 5C Warranty for 5 Years/5000 Hours (whichever is earlier) on five critical components of engine



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 V or 2 x 12 V DC battery as per requirement



Alternator

- Brushless type, screen protected, revolving field
- Self-excited alternator conforming to IS/IES 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

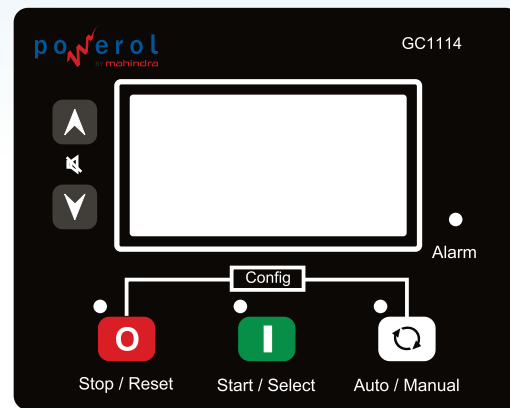


Acoustic Enclosure

- Specially designed to meet stringent MOEF/CPCB norms
- Designed to operate in extreme climatic conditions in temperatures ranging from -10°C to 55°C 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)

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



Control Panel

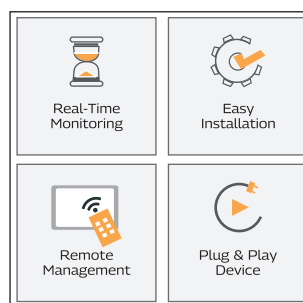
- Powder Coated Control Panel for weather proof and long lasting finish. The control panel consists of the following parts:
 - SEDEMAC GC111X Controller
 - Power Cable/ Bus bars with suitable capacity with incoming/outgoing terminals
 - Indicating lamps for 'Load ON' and 'Set Running'
 - Fuses/MCB's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

Optional Accessories

- Cold Starting System (Temperature range upto -20°C)
- 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. (82.5kVA & Above)
- 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.



TANWAR INDUSTRIES

An ISO 9001:2015 Certified Company
Authorised OEM : Mahindra & Mahindra Ltd. (Rajasthan, Punjab & HP)
Head Office : Jalupura Link Road, M.I. Road, Jaipur-302001
Phone : 0141-2272062, 4108390
Mobile : 9314483535, 9314613281
Web : www.tanwarindustries.com
E-mail : info@tanwarindustries.com

Works : B 159, Phase-1, RIICO Industrial Area Manda, Chomu, Jaipur-303712 Mob.: 9351782713, 9001881555



Oct 2025

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powerol
by mahindra

POWERING THE GROWTH JOURNEY OF THE NATION

High Performance Gensets are now

CPCB IV+ Compliant

Range available from
10kVA to 320kVA



Health Care



Industries



Real Estate



Infra



Low Maintenance



400 Sales & Service Touch Points



Product Life Cycle Support



Best-in-class Fuel Efficiency



Superior Performance



Excellent Block Loading Capacity



IoT Feature

Technical Specifications:

Genset Rating (kVA)	10	15	15	20	25	25	30	35	40	45	50	58.5	82.5	100	125	160	180	200	250	320
DG Model	M10DR	M15DR	M15DR	M20DR	M25DR	M25DR	M30DR1	M35DR	M40DR	M45DR	M50DR	M58.5DR	M82.5DR	M100DR	M125DR	M160DR	M180DR	M200DR	M250DR	M320DR
Power Rating (kW)	8	12	12	16	20	20	24	28	32	36	40	46.8	66	80	100	128	144	160	200	256
No. of Phases	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	3	3	3	3	3	3	3	3	3	3	3
Output Voltage (V)	230/415	230/415	230/415	230/415	230/415	230/415	230/415	230/415	230/415	415	415	415	415	415	415	415	415	415	415	415
Power Factor (lagging)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Current (A) [1 Phase / 3 Phase]	43.5 / 13.9	65.2 / 20.9	65.2 / 20.9	87 / 27.8	108.7 / 34.8	108.7 / 34.8	130.4 / 41.7	152.2 / 48.7	173.9 / 55.6	62.5	69.5	81.3	114.67	139	173.75	222.4	250	278	347.5	444.8
Frequency (Hz) / RPM	50/1500	50/1500	50/1500	50/1500	50/1500	50/1500	50/1500	50/1500	50/1500	50/1500	50/1500	50/1500	50/1500	50/1500	50/1500	50/1500	50/1500	50/1500	50/1500	50/1500
Governing Class	G2	G2	G2	G2	G3	G3	G3	G3	G3	G3	G3	G3	G3	G3	G3	G3	G3	G3	G3	G3
Starting System	12 V - DC electrical	12 V - DC electrical	12 V - DC electrical	12 V - DC electrical	12 V - DC electrical	12 V - DC electrical	12 V - DC electrical	12 V - DC electrical	12 V - DC electrical	12 V - DC electrical	12 V - DC electrical	12 V - DC electrical	12 V - DC electrical	12 V - DC electrical	12 V - DC electrical	12 V - DC electrical	12 V - DC electrical	12 V - DC electrical	24 V - DC electrical	24 V - DC electrical
Fuel Tank Capacity (Litrs)	55	55	75	75	75	75	115	115	115	115	156	156	169	250	388	388	388	388	425	570
DEF Tank Capacity (Litrs)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18L	35L	35L	35L	35L	35L	50L	50L
Genset Dimensions (L x W x H*) (mm) Approx	1750 x 900 x 1250	1750 x 900 x 1250	1990 x 900 x 1330	1990 x 900 x 1330	1990 x 900 x 1330	1990 x 900 x 1330	2075 x 980 x 1330	2325 x 980 x 1330	2325 x 980 x 1330	2325 x 980 x 1330	2400 x 1130 x 1575	2400 x 1130 x 1575	3190 x 1225 x 1575	3190 x 1350 x 1700	3190 x 1350 x 1700	4200 x 1400 x 1745	4200 x 1400 x 1745	4200 x 1400 x 1745	4400 x 1600 x 1850	4750 x 1600 x 2000
Genset weight to consider Approx(kg)	725/670	690/660	740/725	780/750	815/790	815/815	910/910	915/915	970/970	990	1200	1285	1630	1970	2020	2500	2700	2720	3650	3920
Engine Specifications																				
Make	Mahindra	Mahindra	Mahindra	Mahindra	Mahindra	Mahindra	Mahindra	Mahindra	Mahindra	Mahindra	Mahindra	Mahindra	Mahindra	Mahindra	Mahindra	Mahindra	Mahindra	Mahindra	Mahindra	Mahindra
Model	M2155G1	M2155G2	M3205G1	M3205G2	M3205G3	M3205G4	M3205G5	M3205G5	M4275G1	M4275G1	V4355G1	V4355G2	V4355G4	H4485G2	H4485G1	H6725G2	H6725G3	H6725G4	H6935G1	H6935G2
Fuel System	Mechanical	Mechanical	Mechanical	Mechanical	Electronic/CRDI	Electronic/CRDI	Electronic/CRDI	Electronic/CRDI	Electronic/CRDI	Electronic/CRDI	Electronic/CRDI	Electronic/CRDI	Electronic/CRDI	Electronic/CRDI	Electronic/CRDI	Electronic/CRDI	Electronic/CRDI	Electronic/CRDI	Electronic/CRDI	Electronic/CRDI
Rated Power Output (HP)	16.3	18	22.7	25.2	30.5	35.1	40.0	40.0	51.8	51.8	65.4	75.5	101.3	126	156	199	223	247	310	390
Aspiration	Naturally Aspirated	Naturally Aspirated	Naturally Aspirated	Naturally Aspirated	TC	TC	TOC	TOC	TOC	TOC	TOC	TOC	TOC	TOC	TOC	TOC	TOC	TOC	TOC	TOC
No. of Cylinders	2	2	3	3	3	3	3	3	4	4	4	4	4	4	4	6	6	6	6	6
Bore x Stroke (mm)	88.9 x 120	88.9 x 120	88.9 x 110	88.9 x 110	88.9 x 110	88.9 x 110	88.9 x 110	88.9 x 110	88.9 x 110	88.9 x 110	96 x 122	96 x 122	96 x 122	105 x 137	105 x 137	105 x 137	105 x 137	105 x 137	116.6 x 146.1	116.6 x 146.1
Displacement (Ltr)	1.5	1.5	2.0	2.0	2.0	2.0	2.0	2.0	2.7	2.7	3.5	3.5	3.5	4.7	4.7	7.2	7.2	7.2	9.3	9.3
Lube Oil Specification	SAE 15W40 Cd+	SAE 15W40 Cd+	SAE 15W40 Cd+	SAE 15W40 Cd+	SAE 15W40 Cd+	SAE 15W40 Cd+	SAE 15W40 Cd+	SAE 15W40 Cd+	SAE 15W40 Cd+	SAE 15W40 Cd+	SAE 15W40 Cd+	SAE 15W40 Cd+	SAE 15W40 Cd+	SAE 15W40 Cd+	SAE 15W40 Cd+	SAE 15W40 Cd+	SAE 15W40 Cd+	SAE 15W40 Cd+	15W40 Cd+	15W40 Cd+
Total Lube Oil Capacity (Lit)	5	5	6.2	6.2	7	7	7	7	10.5	10.5	8.5	8.5	11.5	13.5	13.5	20.2	20.2	20.2	35	35
Lube Oil Change Period (Hrs.)	600 Hrs	600 Hrs	600 Hrs	600 Hrs	600 Hrs	600 Hrs	600 Hrs	600 Hrs	600 Hrs	600 Hrs	600 Hrs	600 Hrs	600 Hrs	500 Hrs	500 Hrs	500 Hrs	500 Hrs	500 Hrs	500 Hrs	500 Hrs
Radiator Coolant Capacity (Lit)	5.5	5.5	5.5	5.5	5.5	5.5	9.5	9.5	9.5	9.5	15	15	19	19	19	25	24	24	31	45
Alternator Specifications																				
Make [at our option]	Q3/LS Equivalent	Q3/LS Equivalent	Q3/LS Equivalent	Q3/LS Equivalent	Q3/LS Equivalent	Q3/LS Equivalent	Q3/LS Equivalent	Q3/LS Equivalent	Q3/LS Equivalent	Q3/LS Equivalent	Q3/LS Equivalent	Q3/LS Equivalent	Q3/LS Equivalent	Q3/LS Equivalent	Q3/LS Equivalent	Q3/LS Equivalent	Q3/LS Equivalent	Q3/LS Equivalent	Q3/LS Equivalent	Q3/LS Equivalent
Type	Single Bearing, Brushless Type																			
Enclosure Type	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23
Voltage Regulation	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%
Class of Insulation	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
Maximum Unbalanced Load across Phases	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%



Low Fuel Consumption



Low Ownership Cost



Long Life Reliable



Easy Serviceability

Note:

- ◆ 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
- ◆ Above specifications are subject to change without prior notice due to continuous product improvements

⁸⁵ Height Shown without silencer/exhaust tail pipe
Fuel - High Speed diesel (HSD IS 1460-2005)