

mahindra *Rise*

powerol
BY mahindra

A STEP AHEAD OF YOUR POWER NEEDS

10kVA to 200kVA Gensets



Mahindra Powerol Diesel Gensets

About Powerol

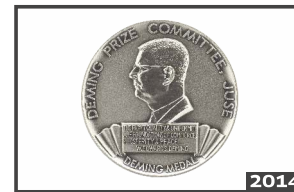
In 2001, Mahindra and Mahindra entered into the field of power generation through its engines under the brand name Mahindra Powerol that are propelling Diesel Generating Sets from 5kVA to 625kVA. Mahindra Powerol, known for its fuel efficiency and quick customer response is trusted by telecom & retail customers.

Within short span of time, Mahindra Powerol has garnered immense customer trust which shows its level of commitment and customer centric approach. Presently, its more than 400,000 gensets are powering different industries and applications in Indian and overseas market. Mahindra Powerol through its technology & service has taken deep stride in the engine and DG set industry. In a little over a decade, it has also expanded its footprint in South East Asia, Middle East and Africa.

Awards & Recognition



Superbrand Award



Japan's Deming Prize for TQM



Most Preferred Genset Brand in Telecom Segment

World Class Manufacturing



Mahindra engines are manufactured at the state-of-the art facilities located in Chakan near Pune & Nagpur. These manufacturing facilities are equipped with:

- Fully automated, controlled environment engine assembly
- Conforms to latest certifications and quality standards
- Quality control systems to maintain highest level of engine quality standards

Sales & Service Network

- Over 400 sales & service touch points across India
- Wide and efficient network to serve you faster and better

Peace of mind service

Powerol sales & service touch points are available across the length & breadth of our country to provide Installation, Commissioning and after sales support. Over 2000 trained technicians are available at these centres for providing doorstep service. All the outlets are well equipped with the necessary spares. So wherever you are, we are always near to you.

Support is just a call away

Our customer care centre is equipped with the latest software for monitoring & time bound escalation till closure of the complaints. To make it simpler for our customers, a common Toll free no. is available for both sales and service support.

Technical Specifications:

Genset Rating (kVA)	10	*15	15	*20	22.5	25	30	*30	*35	40	*45
Duty (Stand by / Prime)	Prime	Stand By	Prime	Stand By	Prime	Prime	Prime	Stand By	Stand By	Prime	Stand By
Power Rating (kW)	8	12	12	16	18	20	24	24	28	32	36
No. of Phases	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3
Output Voltage (V)	230/415	230/415	230/415	230/415	230/415	230/415	230/415	230/415	230/415	230/415	230/415
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
Current (A) (1 phase / 3 phase)	43.5/13.9	65.2/20.9	65.2/20.9	87/27.8	97.8/31.3	108.7/34.8	130.4/41.7	130.4/41.7	152.2/48.7	173.9/55.7	195.7/62.6
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
Governing Class	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2
Starting system	12V DC Electrical	12V DC Electrical	12V DC Electrical	12V DC Electrical	12V DC Electrical	12V DC Electrical	12V DC Electrical	12V DC Electrical	12V DC Electrical	12V DC Electrical	12V DC Electrical
Fuel tank capacity (lit)	55	55	75	75	75	75	115	115	115	115	115
Genset dimensions (L x W x H ^{SS}) (mm) approx	1700 x 900 x 1250	1700 x 900 x 1250	1875 x 900 x 1287	1875 x 900 x 1287	1875 x 900 x 1287	1875 x 900 x 1287	3 Phase: 2000 x 980 x 1280 1 Phase: 2200 x 980 x 1280	3 Phase: 2000 x 980 x 1280 1 Phase: 2200 x 980 x 1280	3 Phase: 2000 x 980 x 1280 1 Phase: 2200 x 980 x 1280	3 Phase: 2000 x 980 x 1280 1 Phase: 2200 x 980 x 1280	3 Phase: 2000 x 980 x 1280 1 Phase: 2200 x 980 x 1280
Genset weight (kg) approx	633	673	738	746	786	786	3 Phase: 935 1 Phase: 1026	3 Phase: 935 1 Phase: 1026	3 Phase: 926 1 Phase: 984	3 Phase: 985 1 Phase: 1051	3 Phase: 996 1 Phase: 1120

Engine Specifications

Make	Mahindra										
Model	2185 GM-C2	2205 GM-C2	3255 GM-C2	3285 GM-C2	3335 TCGM-C2	3385 ELSTCGM-C2	3445 TCIGM-C2	3385 ELSTCGM-C2	3445 TCIGM-C2	4575 TCIGM-C2	4575 TCIGM-C2
Power Output # (HP)	18	20	25	28	33	38.6	44	38.6	44	57	57
Aspiration	Naturally Aspirated	Naturally Aspirated	Naturally Aspirated	Naturally Aspirated	Turbocharged	Turbocharged	Turbocharged & Intercooled	Turbocharged	Turbocharged & Intercooled	Turbocharged & Intercooled	Turbocharged & Intercooled
No. of cylinders	2	2	3	3	3	3	3	3	3	4	4
Bore x Stroke (mm)	88.9 x 110	88.9 x 120	88.9 x 110	88.9 x 110	88.9 x 101.6	88.9 x 120	88.9 x 110	88.9 x 120	88.9 x 110	88.9 x 110	88.9 x 110
Displacement (cc)	1366	1490	2048	2048	1892	2235	2048	2235	2048	2731	2731
Fuel consumption @ 75% load (lit/hr) [^]	2.4	2.7	3	3.6	4.3	4.7	5.7	-	-	7.3	-
Fuel consumption @ 100% load (lit/hr) [^]	2.9	3.6	3.8	4.8	5.7	6.2	7.3	-	-	9.9	-
Lube oil specification	SAE15W40 CH4	SAE15W40 CH4	SAE15W40 CH4	SAE15W40 CH4	SAE15W40 CI4	SAE15W40 CI4	SAE15W40 CI4	SAE15W40 CI4	SAE15W40 CI4	SAE15W40 CI4	SAE15W40 CI4
Total lube oil system capacity (liter)	6	6	6.5	6.5	7	7	7	7	7	10.5	10.5
Lube oil consumption (lit/hr) [§]	0.15% of Fuel Consumption										
Lube oil change period (hrs.)	300 hrs. for oil top up, 600 hrs. for oil change										
Radiator coolant capacity (liters)	5.5	5.5	5.5	5.5	5.5	9.5	9.5	9.5	9.5	9.5	9.5

Alternator Specifications

Make	CG/LS	CG/LS	CG/LS	CG/LS	CG/LS	CG/LS	CG/LS	CG/LS	CG/LS	CG/LS	CG**/LS
Enclosure Type	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23
Voltage regulation	±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
Maximum Unbalanced Load across Phases	25%	25%	25%	25%	25%	25%	25%	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

Technical Specifications:

Genset Rating (kVA)	10	*15	15	*20	22.5	25	30	*30	*35	40	*45
Duty (Stand by / Prime)	Prime	Stand By	Prime	Stand By	Prime	Prime	Prime	Stand By	Stand By	Prime	Stand By
Power Rating (kW)	8	12	12	16	18	20	24	24	28	32	36
No. of Phases	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1/3	1 / 3	1/3
Output Voltage (V)	230/415	230/415	230/415	230/415	230/415	230/415	230/415	230/415	230/415	230/415	230/415
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
Current (A) (1phase / 3 phase)	43.5/13.9	65.2/20.9	65.2/20.9	87/27.8	97.8/31.3	108.7/34.8	130.4/41.7	130.4/41.7	152.2/48.7	173.9/55.7	195.7/62.6
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
Governing Class	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2
Starting system	12V DC Electrical	12V DC Electrical	12V DC Electrical	12V DC Electrical	12V DC Electrical	12V DC Electrical	12V DC Electrical	12V DC Electrical	12V DC Electrical	12V DC Electrical	12V DC Electrical
Fuel tank capacity (lit)	55	55	75	75	75	75	115	115	115	115	115
Genset dimensions (L x W x H ^{SS}) (mm) approx	1700 x 900 x 1250	1700 x 900 x 1250	1875 x 900 x 1287	1875 x 900 x 1287	1875 x 900 x 1287	1875 x 900 x 1287	3 Phase: 2000 x 980 x 1280 1 Phase: 2200 x 980 x 1280	3 Phase: 2000 x 980 x 1280 1 Phase: 2200 x 980 x 1280	3 Phase: 2000 x 980 x 1280 1 Phase: 2200 x 980 x 1280	3 Phase: 2000 x 980 x 1280 1 Phase: 2200 x 980 x 1280	3 Phase: 2000 x 980 x 1280 1 Phase: 2200 x 980 x 1280
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Power Output # (HP)	18	20	25	28	33	38.6	44	38.6	44	57	57
Aspiration	Naturally Aspirated	Naturally Aspirated	Naturally Aspirated	Naturally Aspirated	Turbocharged	Turbocharged	Turbocharged & Intercooled	Turbocharged	Turbocharged & Intercooled	Turbocharged & Intercooled	Turbocharged & Intercooled
No. of cylinders	2	2	3	3	3	3	3	3	3	4	4
Bore x Stroke (mm)	88.9 x 110	88.9 x 120	88.9 x 110	88.9 x 110	88.9 x 101.6	88.9 x 120	88.9 x 110	88.9 x 120	88.9 x 110	88.9 x 110	88.9 x 110
Displacement (cc)	1366	1490	2048	2048	1892	2235	2048	2235	2048	2731	2731
Fuel consumption @ 75% load (lit/hr) ^A	2.4	2.7	3	3.6	4.3	4.7	5.7	-	-	7.3	-
Fuel consumption @ 100% load (lit/hr) ^A	2.9	3.6	3.8	4.8	5.7	6.2	7.3	-	-	9.9	-
Lube oil specification	SAE15W40 CH4	SAE15W40 CH4	SAE15W40 CH4	SAE15W40 CH4	SAE15W40 CI4	SAE15W40 CI4	SAE15W40 CI4	SAE15W40 CI4	SAE15W40 CI4	SAE15W40 CI4	SAE15W40 CI4
Total lube oil system capacity (liter)	6	6	6.5	6.5	7	7	7	7	7	10.5	10.5
Lube oil consumption (lit/hr) ^S	0.15% of Fuel Consumption										
Lube oil change period (hrs.)	300 hrs. for oil top up, 600 hrs. for oil change										
Radiator coolant capacity (liters)	5.5	5.5	5.5	5.5	5.5	9.5	9.5	9.5	9.5	9.5	9.5

Alternator Specifications

Make	CG/LS	CG/LS	CG/LS	CG/LS	CG/LS	CG/LS	CG/LS	CG/LS	CG/LS	CG/LS	CG**/LS
Enclosure Type	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23
Voltage regulation	±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
Maximum Unbalanced Load across Phases	25%	25%	25%	25%	25%	25%	25%	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 | ^A Considering 0.845 Specific Gravity of diesel, +5 % Tolerance |
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^{**} For CG only 3 Phase Configuration available | ^{SS} Height Without Silencer



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