



Technical Specifications (82.5kVA - 200kVA)



Generator Set Specification																								
Ratings	82.5kVA	100kVA	125kVA	140kVA	160kVA	180kVA	200kVA																	
Prime Power Rating*, kVA	82.5	100	125	140	160	180	200																	
Rated load , Amperes	115	139	174	195	223	250	278																	
No of Phases	3	3	3	3	3	3	3																	
Power Factor	0.8	0.8	0.8	0.8	0.8	0.8	0.8																	
ACOUSTIC ENCLOSURE (CANOPY)																								
Noise level, dB	75 dBA at 1 meter (as per stringent testing guidelines of Central Pollution Control Board, India)																							
Length, mm	3200	3750	3790	4500																				
Width, mm	1300	1300	1300	1500																				
Height, mm	2290	1750	1875	1875																				
ENGINE SPECIFICATIONS																								
Make	Mahindra Heavy Engines Pvt. Ltd.																							
Engine Model	4.12TCA	S12-III	S12-II	S12-I	SE12-I	6.12TCE																		
Max Engine Power; hp @ rated rpm	116	141	170.6	190.1	217.5	242	265																	
Rated Engine Power; hp @ rated rpm	106	128	156	175	199	222	245																	
Aspiration	Turbocharged Aftercooled																							
Cooling System	Water Cooled																							
Starting System	12V, Electrical	24V, Electrical																						
Governing Class	Mechanical			Isochronous																				
Number of Cylinders	4	6																						
Bore X Stroke, mm	105 x 137																							
Displacement, Litres	4.75	7.118																						
Compression Ratio	16.9:1																							
Fuel	High Speed Diesel																							
Lube Oil Specifications	15W40 API CH4/CI4																							
Lube Oil Sump Capacity, Litres	12	18																						
Total Coolant Capacity , Litres	19	25																						
Battery Capacity, Ah	150	2 x 150																						
ALTERNATOR SPECIFICATIONS																								
Make	Crompton Greaves / Leroy Somer																							
Type	Brushless, Single Bearing, Self Exciting																							
Voltage (Phase)	415 V (3 Phase)																							
RPM/Frequency, Hertz	1500/50																							
Enclosure	IP23																							
Class of Insulation	Class H																							
CONTROL PANEL SPECIFICATIONS																								
Standard Manual Control Panel with Digital Controller (AMF Panel as per specific requirement/application)																								



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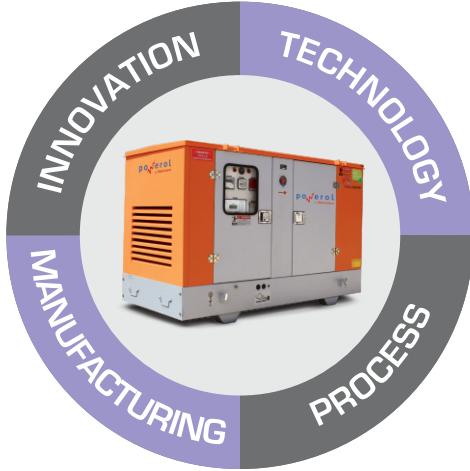
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Mahindra Powerol Diesel Generators Range 7.5kVA to 200kVA



PRODUCT CATALOGUE DG SETS





About Mahindra Powerol

Mahindra & Mahindra Ltd. entered the field of Power Generation in 2002. Today, Mahindra engines under the brand name of Mahindra Powerol are powering Diesel Generators up to a rating of 200kVA Worldwide. These Diesel Generators incorporate the latest technology & offer several advantages-they respond faster to sudden loading & unloading conditions, they vibrate less, have lower noise levels, offer low maintenance costs, control voltage fluctuations & are designed to assure hassle-free operations for over 10,000 hours.

Mahindra Powerol Diesel Generators are manufactured at state-of-the-art factories located in India at Pune & Delhi and also complies to the most stringent noise pollution norms laid down by the Central Pollution Control Board, India making them ready to meet any environmental challenge in the industry.

Mahindra Powerol has sold over 240,000 Diesel Generators, and in the process, became a forerunner in the Indian Power Generation industry and the 1st choice of Indian Telecom majors. Mahindra Powerol has also won the Frost & Sullivan's "Voice of Customer" award for the most preferred brand in the telecom cell-sites segment.

Today, Mahindra Powerol is a significant player in the global power generation industry and has made inroads in South Asia, Middle East & African countries. The focus on International markets has enabled Mahindra Powerol to cater to various segments like Telecom, Government & Defence organizations, Banking Industry, Retail Chains, Household Utility, Healthcare, Hospitality, Infrastructure, Construction & Manufacturing.

Advantages & features of Mahindra Powerol Diesel Generators

Advantages

1. Fuel efficient engines running on Diesel Efficiency Technology.
2. Robust engine (AVL Austria Design) with proven performance ensuring reliability & longer product life.
3. Better weight to power ratio resulting in compact engine size.
4. Low cost of ownership.
5. Less vibrations & low sound levels.
6. Suitable for various segments as Telecom, Construction, Service, Manufacturing, Industries etc.
7. Ready availability of spare parts.
8. Effective after sales service in all countries of operation.

Features

1. 100% testing of units manufactured at Mahindra Powerol.
2. Aesthetically superior; low foot print, high quality sound enclosures providing optimum cooling for engine & alternator.
3. Diesel engine & Diesel Generator control system at par in its class.
4. Designed to meet the latest environmental norms.

Covering key business segments in Nepal

Industries	: Cement Plants, Factories, Garments
Infrastructure	: Real Estate, Construction Cos, Hydro Power, Telecom
Finance	: Banks, NBFC, Savings & Co-op
Commercial	: Govt. Dept., NGO, Embassies, Offices, Commercial Complex
Education	: Universities, Schools & Colleges
Recreation	: Hotels & Resorts, Restaurants, Spas & Health Clubs, Party Palaces, Zoo
Personal Use	: Showrooms, Personal use, Residential back-up
Media	: Press, Radio Station, TV Station
Defence	: Nepal Army, Army's UN Missions, Nepal Armed, Police Forces
Health Sector	: Hospitals, Polyclinics, Nursing Homes
Religious	: Temples, Gumpahas, Mosques, Churches
Others	: Airlines, Petrol Pumps, Printing Press, Hydropower

Technical Specifications (7.5kVA - 75kVA)

7.5kVA to 75kVA - Technical Details																		
DIESEL GENERATOR	Parameters	Unit	Ratings															
	Prime Power Rating in kVA		7.5	10	12.5	15	20	25	30	40	50	62.5	75					
	Rated Load	Amperes	10	14	17.5	21	26	35	42	56	70	87.5	105					
	Make		Mahindra & Mahindra Ltd.															
	Engine Model		2185 GM			3255 GM	3305 GM	4375 GM	4445 TM GM	4575 TCI GM	4725 GM	4905 GM	41035 GM					
	Gross Power	bhp	18			25	30	37	44	57	72	90	103					
	Number of Cylinders		2			3	3	4	4	4	4	4	4					
	Aspiration		Naturally Aspirated						Turbocharged									
	Cooling System		Water Cooled with Radiator															
	Governing Class		Mechanical A1 class															
	Battery Capacity	Ah	As per standard fitment															
	Make		Crompton Greaves/ Leroy Somer															
	Type		Brushless, Single Bearing, Self Exciting															
	Voltage [Phase]	Volts	230 [1 Phase]/ 415 [3 Phase]								415 [3 Phase]							
	RPM / Frequency	rpm/Hz	1500/50															
CONTROL PANEL	Control Panel		Standard Manual Control Panel with Digital Controller (AMF Panel/ ATS Panel- as per specific requirement/application)															
	Noise Level	dB	75 dBA at 1 meter (as per stringent testing guidelines of Central Pollution Control Board, India)															
	Length	mm	2150						2500			3495	3000					
	Width	mm	1030						1030			1150	1150					
	Height	mm	1398						1376			1450	2135					
	Weight	kg	750	800	800	850	900	940	950	1000		1250	1350					

Note: In view of our policy of continuously improving our products, we reserve the right to alter specifications or designs without prior notice and without liability. Illustrations do not necessarily show the product in its standard form. *Maximum load of 100% can be applied for 1 hr maximum

• TC: Turbocharged • TCI: Turbocharged Intercooled