

SPECIFICATION OF MAHINDRA POWEROL  
SILENT DIESEL GENSETS

DG SET SPECIFICATION		Technical Details							
Rating (KVA/KW)	100 (80)	125 (100)	125 (100)	160 (128)	180 (144)	200 (160)	250 (200)	320 (256)	
Output Voltage (Volts/φ/phase)	415/0.8/3	415/0.8/3	415/0.8/3	415/0.8/3	415/0.8/3	415/0.8/3	415/0.8/3	415/0.8/3	
Frequency @ 1500RPM (Hz)	50	50	50	50	50	50	50	50	
Capacity of Fuel Tank (App. Lit)	250	250	250	388	388	388	425	570	
Make of Controller	SEDEM/AC	SEDEM/AC	SEDEM/AC	SEDEM/AC	DEEP SEA	DEEP SEA	DEEP SEA	DEEP SEA	
Weight of DG Set (Approx) Kgs.	1700	1900	2200	2300	2400	2500	3700	3950	
Size of DG Set (Approx)	3500 x 1230 x 1425 mm	3500 x 1230 x 1425 mm	3500 x 1230 x 1425 mm	3900 x 1350 x 1745 mm	3900 x 1350 x 1745 mm	3900 x 1350 x 1745 mm	3900 x 1500 x 1770 mm	4530 x 1600 x 2473 mm	
ENGINE SPECIFICATION		Technical Details							
Model	Mpower	Mpower	Mpower	Mpower	Mpower	Mpower	Mpower	Mpower	
[Make: Mahindra]	41265G	41565G	61565G	61995G	62235G	62485G	63105G	63905G	
Rated Output @ 1500RPM (HP)	126	156	156	199	228	248	310	390	
No. of Cylinders (Nos.)	4	4	6	6	6	6	6	6	
Starting System & Battery	12V-DC 1x120AH	12V-DC 1x120AH	12V-DC 2x120AH	12V-DC 2x120AH	24V-DC 2x120AH	24V-DC 2x120AH	24V-DC 2x150AH	24V-DC 2x150AH	
Bore & Stroke (mm)	105 X 137	105x137	105 X 137	105 X 137	105 X 137	105 X 137	116.4x146.1	116.6x146.1	
Aspiration	Turbo Charged after Cooled								
Type of Governor	Mechanical	Mechanical	Mechanical	Mechanical	Electronic/CRD	Electronic/CRD	Electronic/CRD	Electronic/CRD	
Displacement (Lit.)	4.8	4.8	7.2	7.2	7.2	7.2	9.3	9.3	
Lub. Oil Pump Capacity (lit.)	33.5	34.5	20.2	20.3	20.2	20.2	30	30	
*Fuel Consumption (lit./hr @ 75% Load)	17.3	21.4	21.4	27.8	28.7	28.3	41.2	51.5	
ALTERNATOR SPECIFICATION		Technical Details							
Alternator Make / Type	Leroy Somer / Cremona / Stamford or any other equivalent make (as per option) Brushless, Single Bearing Type.								
Rated Current (FLC) Amps	140	140	174	222	230	278	348	445	
Voltage Regulation	±1%	±1%	±1%	±1%	±1%	±1%	±1%	±1%	
Class of Insulation	H	H	H	H	H	H	H	H	
Standard Enclosure	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	
CONTROL PANEL	Standard Manual operated micro processor based. (with SEDEM/AC/DEEP SEA make controller) (AMF Panels & Auto Synchronise auto load sharing Panels other options as per customer demand also available at extra cost.)								

Note: \* Fuel consumption data is based on diesel having specific gravity of 0.85 and conforming to IS - 1460.  
 \* Fuel consumption tolerance is ±5%. \* Deviations as per site condition and nature of load applicable.  
 \* Trailer Mounted sets offered on demand. \* Ratings above 320 KVA also available.  
 \* Specifications subject to change without notice.



## Mahindra Powerol Diesel Generators

### Range 5KVA to 320KVA



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### TANWAR INDUSTRIES

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**2 YEARS WARRANTY**

\*Subject to conditions.

NATIONWIDE SERVICE CENTERS

### About us

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Mahindra & Mahindra Inc. has entered the field of Power Generation in 2001. They, M&M segment under the brand name Mahindra powerol are providing Diesel Generating sets for a rating of 1000KVA.

Mahindra Powerol has set new trends in the Indian Telecom industry by assuming total ownership for the entire value chain of mobile operator and it is high demand from the government and industrial markets. With its complete support of over 170 exclusive service stations Mahindra Powerol is the most preferred brand in telecom segment today.

Mahindra Powerol DG sets are also sold through branded showrooms for retail customers across the country. Mahindra Powerol introduced new finance for purchase of DG sets, the first time that organized retail finance being offered for this range of DG sets.

Mahindra Powerol DG sets are approved by CPCB (Central Pollution Control Board) for Noise and Emission levels and are environment friendly.

- No-Compromise technology
  - Most fuel efficient in its class - zero leak engines
  - AC Drive Governing- Safe Governor for expensive equipments.
  - Electronic controller/Adaptors fitted on all engines of 100 to 320 KVA DG sets

### Powerol Gensets

Menu/AMF/ Auto Synchronizing Control panel options available. It is installed and commissioned through powerol authorized dealer. Annual Maintenance contract & Comprehensive Annual Maintenance contract offered on demand.

**Silence certified**  
Each and every Powerol DG sets comply with the most stringent noise and vibration norms stipulated by the Central Pollution Control Board of India (CPCB).

**Winner of Derring Price for 2014**  
The Derring Price is a global quality award instituted by the Institution for scientific & engineers (IUSE) that recognizes organisations that have successfully implemented total quality management (TQM). Mahindra Powerol is the only company in India to be awarded the global distinction this year.

**Generates peace of mind**  
In emergency times, only the best in its category guarantees a seamless switch over to the backup power. Moreover, its efficient governing system controls the voltage fluctuations, thus ensuring complete safety of your equipments.

Each Mahindra Powerol DG set is supplied complete with Mahindra Forward engine and alternator of respective make, Battery, Fuel Tank, Control Panel and Genset as standard fitment.  
Approved by all major buyers Govt/Defense/M.T. Sector & public sector undertaking.

### DATOMS GENERATOR Monitoring System

A Smarter Way to manage & Monitor DGs

We offer a fully scalable solution to monitor and diagnose your entire DG systems from anywhere, anytime ensuring your peace of mind that your generator is in good and healthy condition to function correctly in an event of emergency.

- 24x7 Monitor
- Reduced Expense
- Downtime Reduction
- Fuel Saving

## SPECIFICATION OF MAHINDRA POWEROL SILENT DIESEL GENSETS

		Technical Details															
ENGINE (Water Cooled)	Prime Power Rating	Unit	50KVA	75KVA	100KVA	150KVA	200KVA	250KVA	300KVA	350KVA	400KVA	450KVA	500KVA	62.5KVA	75KVA	82.5KVA	
	Engine Model		75K12042	100K12042	130K12042	190K12042	250K12042	300K12042	350K12042	400K12042	450K12042	500K12042	62.5K12042	75K12042	82.5K12042	100K12042	125K12042
	Cylinders/Power	Eng/PS/HP/Brk	16/30	24/36	32/48	48/72	64/96	96/144	128/192	160/240	200/300	240/360	320/480	16/32	24/36	32/48	48/72
	Aspiration	Make/Type	Mechanical	Mechanical	Mechanical	Turbo	Turbo	Turbo	Turbo	Turbo	Turbo	Turbo	Turbo	Turbo/CRD	Turbo/CRD	Turbo/CRD	Turbo/CRD
	No. of Cylinders	Yes	2	2	3	3	3	3	3	3	4	4	4	4	4	4	4
	Cylinder bore	CC	1260	1496	1648	2048	1892	2232	2348	2048	2372	2372	2372	1192	1532	1532	1802
	Type of Governor	Electrical	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
	No. of Battery & Size	No. & Size	5x55/55	7x55/55	7x55/55	7x55/55	7x55/55	7x55/55	7x55/55	7x55/55	7x55/55	7x55/55	7x55/55	7x55/55	7x55/55	7x55/55	7x55/55
	Starting system	12V DC - 120/120/120															
	Make / Type	Leroy Somer (LS) / Cremona (Cre) or any other equivalent make (as per option). Brushless, Single Bearing, Class H Insulation, 1500 RPM / 50Hz															
ALTERNATOR	Phase / Voltage	Eng/220V or Eng/415V	Eng/220V or Eng/415V	Eng/220V or Eng/415V	Eng/220V or Eng/415V	Eng/220V or Eng/415V	Eng/220V or Eng/415V	Eng/220V or Eng/415V	Eng/220V or Eng/415V	Eng/220V or Eng/415V	Eng/220V or Eng/415V	Eng/220V or Eng/415V	Eng/220V or Eng/415V	LS Eng/220V or Eng/415V	LS Eng/220V or Eng/415V	LS Eng/220V or Eng/415V	LS Eng/220V or Eng/415V
ACOUSTIC ENCLOSURE	AMF Approved, Sheet Metal Fabricated, Powder Coated, Provided with Center lifting arrangement																
CONTROL PANEL	Standard Manual operated micro processor based. (AMF Panel & other options as per customer demand also available at extra cost.)																
SILENCER	Make/Type	ISO/DE	ISO/DE	ISO/DE	ISO/DE	ISO/DE	ISO/DE	ISO/DE	ISO/DE	ISO/DE	ISO/DE	ISO/DE	ISO/DE	ISO/DE	ISO/DE	ISO/DE	ISO/DE
CAPACITY OF FUEL TANK	Capacity (Lit)	250	250	250	388	388	388	425	425	425	425	425	425	570	570	570	570
DG SET	Size (Approx)	3500 x 1230 x 1425 mm	3500 x 1230 x 1425 mm	3500 x 1230 x 1425 mm	3900 x 1350 x 1745 mm	3900 x 1350 x 1745 mm	3900 x 1350 x 1745 mm	3900 x 1350 x 1745 mm	3900 x 1350 x 1745 mm	3900 x 1350 x 1745 mm	3900 x 1350 x 1745 mm	3900 x 1350 x 1745 mm	3900 x 1350 x 1745 mm	4530 x 1600 x 2473 mm	4530 x 1600 x 2473 mm	4530 x 1600 x 2473 mm	4530 x 1600 x 2473 mm

Note: In view of our policy of continuously improving our products, we reserve the right to alter specifications / designs without prior notice and without liability.  
 \* All DG set ratings are Continuous Duty. \* Deviations as per site conditions and nature of load applicable. \* Ratings marked \* are stated by ratings.  
 \* Trailer mounted DG Sets (2 wheel) & skid are available at extra cost. \* AMF Panels supplied on demand at extra cost. \*