

7.5 kVA - 82.5 kVA GENSETS

Technical Specifications:

Genset Rating (kVA)	7.5	10	15	20	25	25	30
Duty (Standby/ Prime)	Prime	Prime	Stand By	Stand By	Prime	Prime	Stand by
Power Rating (kW)	6	8	12	16	18	20	24
No. of Phases	1 phase /3 phase	1 phase /3 phase	1 phase /3 phase	1 phase /3 phase	1 phase /3 phase	1 phase /3 phase	1 phase /3 phase
Output Voltage (V)	230V/415V	230V/415V	230V/415V	230V/415V	230V/415V	230V/415V	230V/415V
Power Factor (lagging)	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Current (A) (1phase / 3 phase)	32/10	43/14	54/17	80/26	98/31	109/35	130/42
Frequency (Hz) RPM	50/1500	50/1500	50/1500	50/1500	50/1500	50/1500	50/1500
Governing Class	A1	A1	A1	A1	A1	A1	A1
Starting system	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)	40	55	55	75	75	75	115
Genset dimensions approx (L x W x H) (mm)	1800 x 900 x 1240	1800 x 900 x 1250	1800 x 900 x 1250	2000 x 980 x 1295	2000 x 980 x 1295	2000 x 980 x 1295	2500 x 1030 x 1330
Genset weight (kg)	650	650	690	800	840	840	920

Engine Specifications

Make	Mahindra						
Model	1125 GR	2185 GM C2	2205 GM C2	3285 GM C2	3335 ATCGM C2	3385 ATCIGM C2	3385 ATCIGM C2
Rated Power at 100% Load (HP)	12	16.3	18.2	25.4	29.9	34.5	37
Aspiration	NA	NA	NA	NA	TC	TCI	TCI
No. of cylinders	1	2	2	3	3	3	3
Bore x Stroke (mm)	100 x 110	89 x 110	89 x 120	89 x 110	89 x 102	89 x 102	89 x 102
Displacement (cc)	864	1365	1490	2048	1892	1892	1892
Fuel consumption @ 75% load (lit./hr) [^]	1.8	2.4	2.7	3.6	3.9	4.7	5.5
Fuel consumption @ 100% load (lit./hr) [^]	2.1	2.9	3.6	4.8	4.9	6.2	7.3
Lube oil specification	SAE15W40 CH4	SAE15W40 CH4	SAE15W40 CH4	SAE15W40 CH4	SAE15W40 CI4	SAE15W40 CI4	SAE15W40 CI4
Total lube oil system capacity (liter)	6	6	6	6.5	7	7	7
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

Alternator Specifications

Make	Mahindra Powerol						
Enclosure Type	IP23	IP23	IP23	IP23	IP23	IP23	IP23
Voltage regulation	±1%	±1%	±1%	±1%	±1%	±1%	±1%
Class of insulation	Class H	Class H	Class H	Class H	Class H	Class H	Class H
Maximum Unbalanced Load across Phases	25%	25%	25%	25%	25%	25%	25%

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Technical Specifications:

Genset Rating (kVA)	30	35	40	45	50	62.5	75	82.5
Duty (Standby/ Prime)	Prime	Prime	Prime	Prime	Prime	Prime	Prime	Prime
Power Rating (KW)	24	28	32	32	40	50	60	66
No. of Phases	1 phase / 3 phase	1 phase / 3 phase	1 phase / 3 phase	3 phase	3 phase	3 phase	3 phase	3 phase
Output Voltage (V)	230V/415V	230V/415V	230V/415V	415V	415V	415V	415V	415V
Power Factor (lagging)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Current (A) (1 phase / 3 phase)	130/42	152/49	174/56	62.6	70	87	104	104
Frequency (Hz) RPM	50/1500	50/1500	50/1500	50/1500	50/1500	50/1500	50/1500	50/1500
Governing Class	A1	A1	A1	A1	A1	A1	A1	A1
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
Fuel tank capacity (lit)	115	115	115	115	200	200	180	180
Genset dimensions approx (L x W x H) (mm)	2500 x 1030 x 1330	2500 x 1030 x 1330	2500 x 1030 x 1330*	2500 x 1030 x 1330*	2800 x 1150 x 2060* (upto silencer)	2800 x 1150 x 2060* (upto silencer)	3000 x 1150 x 2135* (upto DUCT)	3000 x 1150 x 2135* (upto DUCT)
Genset weight (kg)	930	940	950	950	1260	1280	1350	1350

Engine Specifications

Make	Mahindra							
Model	3445 ATCIGM C2	3445 ATCIGM C2	4575 ATCIGM C2	4575 ATCIGM C2	4725 AGM C2	4905 AGM C2	41035 AGM C2	41035 AGM C2
Rated Power at 100% Load (HP)	40	40	51.8	51.8	65.4	81.8	93.7	93.7
Aspiration	TCI	TCI	TCI	TCI	TCI	TCI	TCI	TCI
No. of cylinders	3	3	4	4	4	4	4	4
Bore x Stroke (mm)	89 x 110	89 x 110	89 x 110	89 x 110	94 x 115	96 x 122	96 x 122	96 x 122
Displacement (cc)	2048	2048	2731	2731	3192	3532	3532	3532
Fuel consumption @ 75% load (lit/hr) ^	5.7	5.7	7.3	7.3	9.5	11.3	13.5	13.5
Fuel consumption @ 100% load (lit/hr) ^	7.3	7.3	9.9	9.9	12.4	15.3	17.8	17.8
Lube oil specification	SAE15W40 CI4	SAE15W40 CI4	SAE15W40 CI4	SAE15W40 CI4	SAE15W40 CI4	SAE15W40 CI4	SAE15W40 CI4	SAE15W40 CI4
Total lube oil system capacity (liter)	7	7	10.5	10.5	10	10	10	10
Lube oil consumption (lit/hr) §	0.15% of Fuel Consumption				0.1% of Fuel Consumption			
Lube oil change period (hrs.)	300 hrs. for (Oil Top up), 600 hrs. for (Oil Change)							
Radiator coolant capacity (liters)	9.5	9.5	9.5	9.5	12	15	19	19

Alternator Specifications

Make	Mahindra Powerol							
Enclosure Type	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23
Voltage regulation	±1%	±1%	±1%	±1%	±1%	±1%	±1%	±1%
Class of insulation	Class H	Class H	Class H	Class H	Class H	Class H	Class H	Class H
Maximum Unbalanced Load across Phases	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
 * Height without silencer
 Fuel - High Speed Diesel (HSD IS 1460 : 2005)
 ^ Considering 0.845 specific gravity of diesel, 5% tolerance
 § Considering 0.89 specific gravity of oil
 All specifications are at standard NTP operating conditions

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10 - 75 kVA GENSETS /



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