

82.5 kVA - 200 kVA GENSETS

Gensets powered by best-in-class Engine, Alternator & Controller

Mahindra mPOWER Engine

- Higher block loading capacity
- Linear fuel consumption
- Low ownership cost
- Mechanical / Common rail fuel injection system
- Modular cylinder head for easy serviceability

Genset Controller

Premium controller that delivers accurate metering, best-in-class protection for optimum genset performance. With Genset controller, the genset is always protected against breakdowns from electrical or mechanical flaws and thereby ensures maximum uptime.

Key features

- Compatible with Auto Mains Failure facility
- 500 event log memory storage
- Comes with RS 485 port for modbus communication as standard scope
- Activation time delay for oil pressure, coolant temperature, voltage and frequency faults
- Routine maintenance & service alerts
- 5 configurable inputs
- Sleep mode
- Remote start & stop facility

Genset Monitoring (Key Parameters)

- Generator/load power (kW, kVA, kVA_r, pf), generator/load current, battery voltage
- RPM, running hours, oil pressure, engine temperature and fuel level

Genset Protection (Key Parameters)

- High engine temperature, low oil pressure, engine over/under speed
- Over current, over/under voltage, Charging alternator low voltage

Alternator

- Brushless type, screen protected, revolving field, self-excited alternator conforming to IS/IEC 60034-1
- 3 Phase reconnect type winding with 12 terminals brought out for connection
- Superior winding for harmonic reduction
- Epoxy coating for consistent performance in all weather conditions
- Better transient response capability

Acoustic Enclosure

- Aesthetically designed at Mahindra Research Valley
- Designed by using latest technology aids like Computer aided Engineering (CAE), Noise-Vibration Harshness Engineering (NVH) and Computational Fluid Dynamics Engineering (CFD) which resulted in lowest foot print & lowest noise levels

Optional Accessories

PMG alternator, RTD/BTD Space Heater, Coolant / Oil heater, Heavy duty air cleaner, synchronization. For more details kindly contact our authorised representative





Genset Specification

Genset Prime Rating (kVA)	82.5	100	125	160	180	200
Genset Prime Rating (KW)	66	80	100	128	144	160
Phase/Voltage (V)	3/415					
Power Factor (lagging)	0.8					
Current (A)	115	139	174	223	251	278
Frequency (Hz) & RPM	50/1500					
Governing class	G2 as per ISO 8528 Part V					
Starting system	12 V DC Elec	12 V DC Elec	24 V DC Elec	24 V DC Elec	24 V DC Elec	24 V DC Elec
Fuel tank capacity in liters	200	200	219	300	400	400
Canopy dimensions w/o Silencer [L x W x H*] (mm) approx	3200 x 1200 x 1600 / 2233 (upto silencer)	3200 x 1200 x 1600 / 2233 (upto silencer)	3750 x 1030 x 2178 (upto silencer)	3750 x 1300 x 1800 / 2569 (upto silencer)	4300 x 1400 x 1800 / 2458 (upto silencer)	4300 x 1400 x 1800 / 2458 (upto silencer)
Genset Weight in Kg (approx.)	1700	1750	1900	2350	2750	2800

Engine Specification

Make / Series	Mahindra mPOWER					
Model	mPower41015G	mPower41265G	mPower61565G	mPower61995G	mPower62235G	mPower62485G
Rated Power at 100% Load (HP)	101	126	156	199	223	248
Aspiration	TCA	TCA	TCA	TCA	TCA	TCA
No. of cylinders	4	4	6	6	6	6
Bore x Stroke (mm)	105 x 137	105 x 137	105 x 137	105 x 137	105 x 137	105 x 137
Displacement (lit)	4.8	4.8	7.2	7.2	7.2	7.2
Fuel consumption @ 75% load (lit/hr) ^	13.9	17.3	21.4	27.8	28.7	33.3
Fuel consumption @ 100% load (lit/hr) ^	18.1	23.1	28	36.7	38.2	40.8
Lube oil specification	15W40 API CI4+	15W40 API CI4+	15W40 API CI4+	15W40 API CI4+	15W40 API CI4+	15W40 API CI4+
Total lubrication system capacity (liters)	13.5	13.5	20.2	20.2	20.2	20.2
Lube oil consumption @ full load [§]	0.1% of Fuel Consumption					
Lube oil change period (hrs.)	500					
Radiator coolant capacity (liters)	19	19	22.5	25	24	24

Alternator

Make	Mahindra Powerol
Enclosure Type	IP23
Voltage regulation	±1%
Class of insulation	Class H
Maximum Unbalanced Load across Phases	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
 Fuel - High Speed Diesel (HSD IS 1460 : 2005)
 ^ Considering 0.845 specific gravity of diesel, 5% tolerance
 § Considering 0.89 specific gravity of oil
 * For Standby duty, contact Powerol authorized representative
 All specifications are at standard NTP operating conditions

Shaktiman Equipments Pvt. Ltd.

No. 9, Vellalar Street,
 East Ayanambakkam,
 Chennai - 600 095

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

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

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%

7.5 kVA - 82.5 kVA GENSETS



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

Shaktiman Equipments Pvt. Ltd.

No. 9, Vellalar Street,
 East Ayanambakkam,
 Chennai - 600 095

10 - 75 kVA GENSETS /



Dealer Stamp



044 4952/ 3600 / 3700 / 7150



+91 96000 03253
 +91 98840 69101



info@shaktiman.co



www.shaktiman.co