

# 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<sub>r</sub>, 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

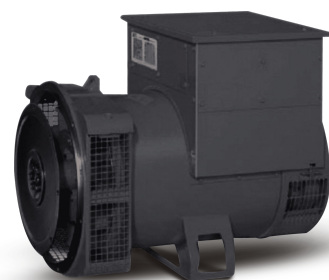
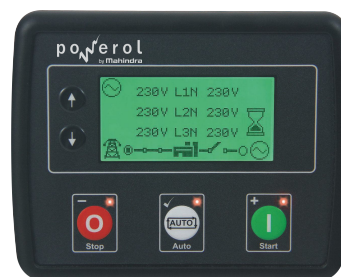
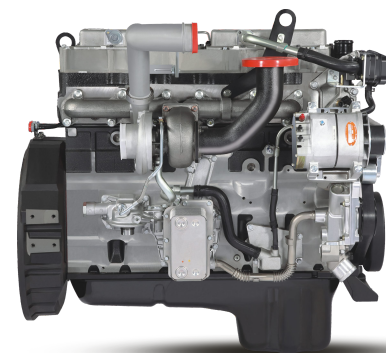
- Brushless type, screen protected, revolving field, self-excited alternator conforming to IS/IEC 60034-1
- 3 Phase reconnect type winding with 12 terminals brought out for connection
- Superior winding for harmonic reduction
- Epoxy coating for consistent performance in all weather conditions
- Better 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
Genset dimensions w/o Silencer (L x W x H*) (mm) approx	3200 x 1200 x 1600	3200 x 1200 x 1600	3750 x 1030 x 1550	3790 x 1300 x 1800	4300 x 1400 x 1800	4300 x 1400 x 1800
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 <sup>§</sup>	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

