

MOST POWER SILENT GENSET

(10 KVA TO 125 KVA)

Website:- www.mpgenerators.in

Email:- mpelectrical1993@ymail.com

Toll Free:- 1800-103-2199

TECHNICAL SPECIFICATION OF 20 KVA SILENT D.G SET (MODEL: MP-20-DG-1PH)

| Genset | Detailed Technical Specification | Engine |
|---|----------------------------------|---|
| Genset Rating in Kva | 20 | Engine Make/Model MP/2100 -HMT-Zetor Pattn |
| No. of Phases | 1 | Engine Speed (rpm) 1500 |
| Power Factor | 0.8 | Rated Power (BHP-Approx.) 28 |
| Voltage (V) | 230 | No. of Cylinder 2 |
| Frequency (HZ) | 50 | Bore (mm) 100 |
| Current (Amp) | 83 | Stroke (mm) 4-Stroke 118 |
| Controller | Standard (Procom) | Aspiration/Injection Natural/DI |
| Starting System | 12 V DC | Cooling System (Radiator) Liquid Cooled |
| Genset Weight (KG) | 780 | Cooling System Capacity (litr) 10 |
| Noise @ 75% Load (dba) | <75@1M | Governing Mechanical A-1 Class |
| Genset Dimension-mm (L*W*H) | 1900*1000*1300 | Air Filter Type Dry Type |
| Battery type | 12 Volt (80AH) | Diesel Filter/Oil Filter 2/1 Pcs |
| Circuit Breaker Rating (A) SPCL | 63 | Engine Colour Platinum Grey |
| Alternator Data | | Fuel & Oil Systems Technical Data |
| Alternator Make | Most Power (India) | Fuel System Mechanical |
| Alternator Model | MP-20-1PH | Type of Fuel HSD |
| No. of Bearing | Single Bearing | Fuel tank Capacity (litr) 60 |
| Alternator Rating | 20 Kva | Fuel Consumption @100% Load (litr/Hr) 3.50 |
| No. of Phase | 1-Phase | Fuel Consumption @75% Load (litr/Hr) 2.85 |
| Class of Insulation | H Class | Fuel Consumption @50% Load (litr/Hr) 1.90 |
| SAE-Size | 3*10 | Fuel Consumption Variation 0 to +5% |
| Voltage Variation | (+/-) 1 % | Lube Oil Change Period (hr) 250/500 |
| Rated Full Load Current (A) | 83 | Oil Type 15W 40 CH4 |
| Regulator Type | (Auto-AVR) | Lube Oil Capacity (Ltr) 6 |
| Type of Alternator | Brushless | Oil Consumption @100% Load (l/hr) <0.1% of FC |
| Alternator Cooling | Fan | |
| Stator Winding | Double Layer Lap | |
| Winding Material | Copper-H Class | |
| *Meets Latest India CPCB-II as Per G.S.R 771 (E) Dated 11-12-2013 and its Further Amendments / Confirms Arai/DGTA Norms. | | |
| Other Features of the Genset | | |
| Robust, Compact, Fuel Efficient Diesel Generator Sets Designed to Operate Under arduous Site Condition. | | |
| Highly Reliable & Latest Technology. | | |
| Designed to Operate Continually 24*7. | | |
| Better Fuel Consumption, Low Running or Maintenance Cost. | | |
| Micro Processor Based Generator Set Monitoring and Safety Control Panel With Auto Start-Stop. | | |



MP Electricals and Electronics Industries
(Most Power Genset)

Village-Jalanpur, City-Khanna,
District-Ludhiana, State-Punjab

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MAIN FEATURES/FUNCTIONS OF MOST POWER SILENT DIESEL GENSET

1. **5 Years Warranty on Alternator.**
2. **5 Years Warranty on Engine** (Except of Rubber Parts).
3. **Control Panel:-** Microprocessor Based Generator Set Monitoring and Digital Control System-LCD display with LED backlight. (Provide All Engine Data/Alternator Data). Provide a record of most recent fault conditions. Fault history stored in the control non-volatile memory. Remote Monitoring System is Available.



4. **Engine Protective Functions includes:-**
 - Configurable alarm output
 - Emergency stop: Annunciate whenever an emergency stop signal is received by the control.
 - Low Lube oil pressure warning and shutdown.
 - High engine water temperature warning/ shutdown.
 - Low coolant temp warning.
 - Sensor failure indication.
 - Low and high battery voltage warning.
 - Weak battery warning.
 - Fail to start shut down.
 - Cranking lockout: Control will not allow the starter to engage or to crank the running engine.
 - Provide Engine Data (Running Hours/Battery Volt/Oil Pressure/Temperature).
5. **Alternator Protective functions includes:-**
 - High and Low AC voltage shut down
 - Under and over frequency shutdown / warning
 - Provide Alternator Data (Voltage-L/L, L/N) (Current 1Ph/3Ph/Kva/KW)
6. **Other Accessories:-**
 - **Fuel tank:** Sub Front Base Fuel tank of 16 SWG MS sheet of adequate capacity.
 - **Batteries:** For electrical control circuit 1 no. and 2 no. according to specific Ratings.
7. **Silent Enclosure:-**
 - Compact, Sleek, Manual/ Automatic.
 - Sound Proof, Weather Proof enclosure and Suitable for outdoor Installation.
 - Confirms to statutory Govt. noise level norms.
 - The Enclosure is of modular construction with the provision to assemble and dismantle easily.
 - The Enclosure is fabricated in 16 SWG-CRCA-sheet.
 - All Nuts-bolts, hardware is of Stainless Steel for longer life.
 - Battery is provided in a tray inside the Enclosure.
 - Doors are gasketed with high quality EPDM gaskets to avoid leakage of sound.
 - Sound proofing of enclosure is done with high quality foam of suitable thickness and density for better sound attenuation.
 - A special Grade silencer is provided to control exhaust noise.
 - Specially designed sound attenuators are provided to control sound at air entry & exit points inside the Enclosure.
 - To make the system vibration free, engine and alternator are mounted on specially designed anti-vibration pads mounted on base frame.
 - The enclosure is designed and layout of the equipment is such that there is easy access to all serviceable parts.
 - Adequate ventilation is provided to meet air requirement for combustion & heat removal.
 - The silent DG set has the Safeties for (High water temperature/Low lube oil pressure High enclosure temperature/Emergency stop push button outside the Enclosure & overspeed shut down.)
 - Standard Control Panel is mounted inside Enclosure itself.
 - With UV resistant powder coating, can withstand extreme environments
 - Noise level is 75 dB (A) at distance of 1 metre. In open free field environment as per ISO 8528 part 10.
 - Fluid drains for lube oil and fuel and Fuel filling point outside.
 - Pick-up Hooks for Lifting and Shifting Genset in Canopy Box.
8. **Single Window and Immediate Service Response for Life-Time of the Product.**

COMMERCIAL TERMS OF SALE

Delivery of Product: From Company's Production Plant. (City-Khanna, District-Ludhiana (Punjab) (India). Minimum Waiting Period After Official Order Confirmation Will be 7-20 Days.

Payment of Product: 25 % Payment for Order Confirmation, 75 % Pending Payment Before Dispatch Product from the Company Against Proforma Invoice Through Online Transaction NEFT/RTGS in the Given Below Accounts Details.

Private Bank:

Bank Name: HDFC Bank Limited

Account No: 50200068073230

Account Holder: MP Electricals & Electronics Industries

IFSC/RTGS Code: HDFC0003082

MICR Coder:- 147240105

Branch Address:- Town-Kheri Naudh Singh (District-Fatehgarh Sahib)

GST No: 03APZPS4821F1ZK



Order Cancellation: 10% Cancellation charge Will be Apply of the order value. Payment Will be Return as Per Company's Order Cancellation Terms & Conditions.

Testing: Testing of Genset will be carried out in our workshop at the presence of your Personnel. Positive testing will give the approval for shipment and payment.

Installation: The foundation of D.G Set has to be carried out by yourselves according to our plans and Foundation Layout, Unloading - Lifting - Shifting, Earthing's, Exhaust Extension (if any), Cabling, Changeover, Diesel for Testing, Civil work etc. to be arranged by customer or shall be charged Extra as per actual – as per the site conditions.

Warranty: The offered equipment is warranted for a period of which is given in the Features and Quotation from the date of commissioning whichever occurs earlier or 60 months from the date of dispatch of material whichever is earlier against any manufacturing defect/defective material only. The warranty will not cover the normal wear and tear or damages caused by accident, wrong handling and improper maintenance. During the warranty period, the parts found defective, mentioned above, will be repaired/replaced free of cost. If the services of our Engineers will require for fitting these parts, the same would be charged as per our standard terms and conditions. However, electrical and other proprietary items would be covered as per their respective manufacturer's standard guarantee clause.

We hope you shall find the above as per your requirements, and favor us with your valuable Purchase order.

Thanking you and Best Regards,
For MP Electricals and Electronics Industries

