



DIESEL GENERATING SET 400/230 V - 50 Hz - 3PHASE

| POWER RATING | | PRIME | STANDBY |
|-----------------------|---------|--|---------|
| POWER | kVA | 1125 | 1250 |
| | kW | 900 | 1000 |
| Rated Speed | r.p.m | 1500 | |
| Available Voltages | V | 400/230 - 380/220-415/240V-440/254 etc | |
| Rated at power factor | Cos Phi | 0.8 | |

Standard Reference Conditions: 25°C (77°F) Air Inlet Temp, 100m(328 ft) A.S.L. 30% relative humidity.

Prime Power (PRP):

According to ISO 8528-1:2018, Prime power is the maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load when operated for an unlimited number of hours per year under the agreed operating conditions with the maintenance intervals and procedures being carried out as prescribed by the manufacturer. The permissible average power output over 24 hours of operation shall not exceed 70 % of the PRP.

Emergency Standby Power (ESP):

According to ISO 8528-1:2018, Emergency standby power is the maximum power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200 hours of operation per year with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. The permissible average power output over 24 hours of operation shall not exceed 70 % of the ESP

| ENGINE | | PRIME | STANDBY |
|-------------------------------------|--------|------------------------------------|---------|
| Rated Output | kW | N/A | 1089 |
| Manufacturer | | Cummins | |
| Model | | KTA38-G9 | |
| Number of Cylinders and arrangement | | 4 Cycle;60°Vee, 12 Cylinder Diesel | |
| Aspiration Type | | Turbocharged and Aftercooled | |
| Bore and Stroke | mm | 159X159 | |
| Compression Ratio | | 13.9:1 | |
| Cooling System | | Water-cooled | |
| Engine Speed/Frequency | rpm/Hz | 1500/50HZ | |
| Coolant Capacity | L | 280 | |
| Starting System | | Electric 24 volt DC | |
| Displacement | L | 37.8 | |
| Lubricant system Capacity | L | 135 | |

| | | | | | |
|----------------------------|------|------------|-------|-------|------|
| Battery Volatge / Capacity | | 24VDC | | | |
| Governor | Type | Electronic | | | |
| Air Filter | Type | Dry | | | |
| Fuel Consumption | Load | 100% | 75% | 50% | 25% |
| | L/h | 230.0 | 175.0 | 118.0 | 63.0 |

ENGINE:Industrial 4 stroke cooled diesel engine complete with air,fuel and oil filters,electric starting and charging equipment,engine protection against low water level.

COOLING:Radiator and colling fan complete with protection guards,designed to cool engine at specified output in air temperatures upto 50 °C,radiators suitable for higher temperatures are available.Low water level protection fitted as standard.

ELECTRICAL SYSTEM:12/24V upto.Axial type starter motor,battery charging alternator,high capacity lead acid battery,and battery tray mounted on the generator base frame,and heavy duty interconnecting cable with terminations.

EXHAUST SYSTEM:Heavy duty industrial exhaust silencer with flexible piping.

| ALTERNATOR MANUFACTURER | STAMFORD | LEROY SOMER | PRIME POWER |
|---------------------------|----------------------------------|-------------|-------------|
| Model | HCI634K | LSA50.2M6 | SMG634K |
| Excitation System | PMG | AREP | PMG |
| Number of Poles | 4 | | |
| Connection Type | Star-Series | | |
| Insulation Class | Class H | | |
| Voltage Regulator | A.V.R. (Electronic) | | |
| Bracker Type | Single bearing | | |
| Steady Voltage Precision | ± 0.5% | ± 1% | ± 0.5% |
| Couping System | Flexible disc | | |
| Coating Type | Standard (Vacuum impregnation) | | |
| Underspeed Protection | Standard | | |
| Ingress Protection Rating | IP23 | | |
| Wave Form NEMA=TIF | <50 | | |

CONTROL PANEL: COMAP AMF20 Or DSE7320

Auto Mains Failure Control Panel

Panel equipments:

- Δ Control with AMF module
- Δ Static battery charger
- Δ Emergency stop push button



a) Generating set control module features:

- Δ The module is used to monitor main supply and starts and stops of a standby generating set
- Δ Micro-processor based design
- Δ Automatic control of main and generator contactors
- Δ Monitors engine performance and AC power output LED alarm indication

c) Alarms:

- Δ Over and Under Speed
- Δ Low and High Battery Volt.
- Δ Start and Stop Failure
- Δ Charge fail

| Generating Sets Optional Features | | | | |
|--|---|---|--|---|
| Engine | Alternator | Generator Sets | Fuel System | Canopy |
| <ul style="list-style-type: none"> Δ Water Jacket Preheater Δ Oil Preheater Δ Engine oil feeding and drain pump | <ul style="list-style-type: none"> Δ Winding Temperature Measuring Instrument Δ Alternator Preheater Δ PMG Δ Anti-damp and anti-corrosion treatment Δ Anti-condensation heater | <ul style="list-style-type: none"> Δ Auto Transfer Switch Δ Parallel control panels Δ Trailer type Gensets Δ Residential Silencer Δ Bulk fuel tank | <ul style="list-style-type: none"> Δ Low fuel level alarm shutdown Δ Automatic Fuel Filling System | <ul style="list-style-type: none"> Δ Super silent type |

Quality Standards

ISO9001:2000,ISO14000,ISO3046
 ISO8528 BS4999

BS5514,AS1359,ICE34
 CE Compliance

Gensets Dimensions & Weight & Fuel Tank Capacity

Open type:LxWxH (mm),Dry Weight / Kgs, Fuel tank (L)
 4550x2090x2444, 8200kgs

Silent type:LxWxH (mm), Dry Weight / Kgs,Fuel tank (L)
 5806x2267x2554,11900kgs

Local Distributor:



FUZHOU SUNSHINE MACHINERY CO.,LIMITED
 Fuzhou, Fujian, China.

Tel:86-591-88204179 FAX:86-591-87723357
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