



LG44C

Powered by Cummins

| Model | Frequency/RPM | Standby Power | Prime Power |
|-------|---------------|---------------|-------------|
| LG44C | 50Hz/1500RPM | 35KW | 32KW |
| | | 44KVA | 40KVA |

* Voltages Available: 220/380V • 230/400V • 240/415V

- (1) Prime Power: Ratings are as per DIN 6271, BS55114 and ISO-3046 with 10% overload capacity.
(2) Standby Power: Power available at variable load for up to a max. of 500 hours during one year of which 300 hours may be for continuous use.
(3) Operation at Altitude $\leq 1000\text{m}$, Ambient temperature $\leq 40^{\circ}\text{C}$. If altitude higher than 1000m, each 300m will cause additional de-rating 4%.

| General Characteristics | |
|-------------------------|------------------|
| Model | LG40C |
| Engine | Cummins 4BT3.9G1 |
| Alternator | Stamford or Lega |
| Speed Control Type | Mechanical |
| Phase | 3 |
| System Voltage | 24 |
| Frequency | 50Hz |
| Engine Sped(RPM) | 1500 |
| Controller Model | AMF20 |

| Dimensions | | |
|----------------|-----------|-------------|
| DIMENSION | OPEN TYPE | SILENT TYPE |
| Length (L) | 1725mm | 2450mm |
| Width (W) | 950mm | 1080mm |
| Height (H) | 1500mm | 1255mm |
| Net Weigh (KG) | 860KG | 1180KG |

| Engine Specification | | |
|----------------------------|--------------|------|
| Brand | Cummins | |
| Model | 4BT3.9G1 | |
| No. of Cylinders and Cycle | 4L, 4 Stroke | |
| Induction System | NA | |
| Compression Ratio | 17.3:1 | |
| Displacement (L) | 3.9 | |
| Bore x Stroke (mm) | 102 x 120 | |
| Torque (N.m) | 229 | |
| Piston Speed (m/s) | 6 | |
| Air Intake Flow (L/s) | 45 | |
| Exhaust Flow (L/s) | 108 | |
| Net Weight (kg) | 321 | |
| Starting System | M | |
| Engine Coolant Flow (L/s) | 2.2 | |
| Base Output Power (kW) | 36 | |
| Fuel Consumption (L/h) | 110% load | 11.1 |
| | 100% load | 10 |
| | 75% load | 7.9 |
| | 50% load | 5.9 |

| | | |
|--------------------|---|-------|
| Cooling System | Max.coolant cycling resistance exterior engine(kPA) | 28 |
| | Thermostat adjusting temperature (°C) | 82-95 |
| | Min. opening pressure of radiator cap(kPA) | 69 |
| | Coolant capacity-engine only(L) | 7.2 |
| Fuel System | Fuel injection pump model | BYC A |
| | Max. fuel input resistance of tranfer pump (mmHg) | 102 |
| | Max. allowable head on injector return liner (mmHg) | 508 |
| | Total fuel overflow amount (L/h) | 30 |
| Lubricating System | Low idle (kPA) | 207 |
| | Rated speed (kPA) | 345 |
| | Max. oil temperature permitted in oil pan (°C) | 121 |
| | Lubrication system Min. capacity (L) | 10.9 |
| Exhaust System | Max. Back Pressure (kPA) | 10.2 |
| Electrical System | Starter (V) | 24 |
| | Battery charging system (A) | 40 |

| Alternator Specification | | |
|--------------------------------|-----|--------------------------------|
| Poles | No. | 4 |
| Connection type (standard) | | Star-series |
| Insulation | | Class H |
| Enclosure (according IEC-34-5) | | IP23 |
| Exciter system | | Self-excited, brushless |
| Voltage regulator | | A.V.R. (Electronic) |
| Bracket type | | Single bearing |
| Coupling system | | Flexible disc |
| Coating type | | Standard (Vacuum impregnation) |

*Alternator meets BS EN 60034 and the relevant section of other international standards such as BS5000, VDE 0530, NEMA MG1-32, IEC34, CSA C22.2 and AS1359.

| Options | |
|---|---|
| Engine <ul style="list-style-type: none"> Jacket Water Preheater Oil Preheater | Alternator <ul style="list-style-type: none"> Winding temperature measuring instrument Alternator Preheater PMG Anti-damp and anti-corrosion treatment Anti-condensation heater |
| Generator Sets <ul style="list-style-type: none"> Tools with the machine | Canopy <ul style="list-style-type: none"> Rental type canopy Trailer |
| Fuel System <ul style="list-style-type: none"> Low fuel level alarm Automatic fuel feeding system Fuel T-valves | Exhaust System <ul style="list-style-type: none"> Protection board from heat |
| Control Panel <ul style="list-style-type: none"> Remote control panel ATS Remote controller Synchronizing controller | Cooling System <ul style="list-style-type: none"> Front heat protection Coolant (-30°C) |
| | Lubricating System <ul style="list-style-type: none"> With machine oil |

Note: This drawing is provided for reference only and should not be used for planning installation. Contact your local distributor for more detailed information.

| Standard Controller (ComAp AMF20 or DEEPSEA DSE6020) | |
|--|---|
| Control | Auto/Start/Stop Control Emergency Stop Pushbutton/ Alarm Engine Cool Down Timer Warm - up Timer Load Switching Timer Engine Cycle Crank |
| Indications | Operating Hours 3 Phase Generator Voltage Sensing & Monitoring Current Protection & Monitoring Power Measurement (kW, kVA, kVAr, kWh, kVAh, pf) Frequency Monitoring (Hz) Oil Pressure/Coolant Temperature/Fuel Level Monitoring Battery Voltage Monitoring (DC) Alarm (Acknowledge) |
| Warning & Shutdown Alarms | Generator Over/Under Voltage & Frequency Crank Disconnect (Failure to Start) Under/Over Speed Over Current Low oil pressure High Water Temperature Low Fuel Level Low Water Level |
| Features | IP 65 (if ordered with gasket) Basic Scheduler 8 - 35V DC Supply Digital Inputs(4) - Outputs(4 MPU/ 6 CAN) Event Log (5 shutdowns) |



AMF20



DSE6020



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