



Liquified Petroleum Gas Generators

60 kVA / 48 kW Prime Rated

LPG RANGE



Model: **JEG60C-LPG**

| | | | | |
|-------------------|-----------------------|----------------|--------------|----------------------------|
| Cummins 6BT5.9 | Alternator UCI224E | Phase Three | Type Open | Model Number JEG60C-LPG |
|-------------------|-----------------------|----------------|--------------|----------------------------|

| RATINGS | PRIME POWER (PRP) | | | STANDBY POWER (ESP) | | |
|---------|-------------------|-----|------|---------------------|-----|------|
| | kVA | kWe | Amps | kVA | kWe | Amps |
| Voltage | | | | | | |
| 380/220 | 60 | 48 | 91 | 66 | 52 | 100 |
| 400/230 | 60 | 48 | 86 | 66 | 52 | 95 |
| 415/240 | 60 | 48 | 83 | 66 | 52 | 9 |
| 440/254 | n/a | n/a | n/a | n/a | n/a | n/a |

Power Definition

Prime Power (PRP) is the power continuously available at variable load in lieu of mains power. An overload of 10% is permitted for one hour in every 12 hours of operation.

Standby Power (ESP) is the maximum output available for up to a maximum of 500 hours per year. No overload is permitted.

Standard Conditions: air inlet temperature of 40°C, barometric pressure of 100 kPA (110 m.a.s.l.) relative humidity of 30%.

Note: All ratings data based on operation under ISO 8528-1 and ISO 3046-1. The above ratings may be subject to deration at different ambient temperatures or site altitude conditions.



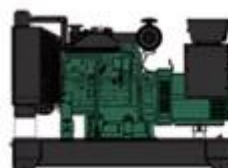
Scope of Supply

- Water cooled Cummins engine at 1500rpm
- Single bearing Stamford alternator
- Set mounted Radiator
- Coolant expansion bottle
- Fully guarded engine-driven fan
- Gas Train with AGA approved componentry
- Heavy duty rubber anti-vibration mounts
- 24V starter batteries, tray and connecting cables
- Battery Charger and Battery Isolator switch
- Spin on Oil filters and dry type Air filter
- Automatic Mains Failure controller with protections
- Main line circuit breaker
- Emergency Stop button
- Industrial silencer
- Factory Test Certificate
- Pre-delivery service
- Operation Manual

Dimensions and Weight

| | | |
|------------|-----|---------|
| Length | (L) | 2250 mm |
| Width | (W) | 820 mm |
| Height | (H) | 1500 mm |
| Dry Weight | | 1100 kg |

All specifications are subject to change without prior notice








| ENGINE & COOLING TECHNICAL DATA | CUMMINS 6BT5.9 |
|---------------------------------|----------------|
|---------------------------------|----------------|

| | DESCRIPTION | VALUE | UNITS |
|----------------|--|-----------------|---------------------|
| GENERAL | Engine Speed | 1500 | rpm |
| | Number of Cylinders | 6 | Inline |
| | Aspiration | Turbocharged | |
| | Engine Base Output @ Prime Rating | 86 | kW |
| | Bore / Stroke | 102 / 120 | mm |
| | Displacement | 5.9 | litres |
| | Governor | Mechanical | |
| FUEL | Gas Type | Natural | |
| | Methane Content | >75% | CH4 |
| | Gas Consumption at 100% Power | 6.128 | Nm ³ /hr |
| AIR | Maximum Air Intake Restriction (Clean Filter) | 2.48 | kPa |
| | Maximum Air Intake Restriction (Contaminated Filter) | 6.21 | kPa |
| | Engine Air Intake Flow | 108 | litres/sec |
| | Engine Air Exhaust Flow | 280 | litres/sec |
| EXH | Exhaust Gas Flow | 2 | L/sec |
| | Exhaust Gas Temperature | 565 | °C |
| | Maximum Exhaust Back Pressure | 10.1 | kPa |
| COOLING | Lube Oil Temperature | 121 | °C |
| | Maximum Coolant Temperature | 104 | °C |
| | Heat rejection to Exhaust | 55 | kW |
| | Heat rejection to Atmosphere from Engine (Generator) | n/a | kW |
| OIL | Total Oil Capacity | 12.3 | litres |
| | Typical Oil Consumption | <1.6 | g/kWh |
| | Recommended Oil | SAE 15W / 40CF4 | |
| ELEC | Electrical System Voltage | 24 | V |
| | Battery Type | SLA | |
| | Battery Capacity CCA | 400 | A |

| ALTERNATOR TECHNICAL DATA | STAMFORD UCI224E |
|---------------------------|------------------|
|---------------------------|------------------|

| | DESCRIPTION | VALUE |
|----------------|-----------------------|--------------------------------|
| GENERAL | Operating Temperature | 40 °C |
| | Coupling | Direct |
| | Number of Bearings | Single |
| | Phase / Poles | 3 Phase / 4 Pole / Winding 311 |
| | Power Factor | Cos ϕ = 0.8 |
| | Excitation | Self Excited |
| | Insulation System | Class H |
| | AVR Type | PMG |
| | Voltage Regulation | ± 1% |

CONTROLLER OPTIONS **DEEP SEA ELECTRONICS**

| | |
|---|---|
| <p>DSE4510</p>  | <p>AUTO START CONTROL MODULE</p> <p>The DSE4510 is an Auto Start Control Module suitable for a wide variety of single genset applications. Whilst maintaining functions included within higher end controllers, such as generator or load power monitoring, this compact controller provides the user with the ultimate size to feature ratio. Monitoring engine speed, oil pressure, coolant temperature, frequency, voltage, current, power and fuel level, the modules will give comprehensive engine and alternator protection.</p> |
| <p>DSE6120</p>  | <p>AUTO MAINS FAILURE CONTROL MODULE</p> <p>The DSE6120 is an Auto Mains (Utility) Failure Control Module suitable for a wide variety of single genset applications. Monitoring engine speed, oil pressure, coolant temperature, frequency, voltage, current, power and fuel level, the modules will give comprehensive engine and alternator protection.</p> |
| <p>DSE7420</p>  | <p>AUTO MAINS FAILURE CONTROL MODULE</p> <p>The DSE7420 is an Auto Mains (Utility) Failure Control Module suitable for a wide variety of single, diesel or gas generator set applications. Monitoring an extensive number of engine parameters, the module displays warnings, shutdowns and engine status information on the back-lit LCD screen, illuminated LEDs, remote PC, audible alarm and via email alerts (utilising optional DSE890 3G Gateway). The DSE7420 can monitor the mains (utility) supply and includes USB, RS232, RS485 & Ethernet ports as well as dedicated terminals for system expansion. The module is compatible with electronic (CAN) and non-electronic (magnetic pick-up/alternator sensing) engines and offers a comprehensive number of flexible inputs, outputs and extensive engine protections so the system can be easily adapted to meet the most demanding industry requirements.</p> |
| <p>DSE8610</p>  | <p>AMF/ SYNCHRONISING / LOAD SHARE / SET TO SET</p> <p>The DSE8610 is an easy to use multi-generator loadshare system, designed to synchronise up to 32 generators including electronic and non-electronic engines. The DSE8610 monitors the generator and indicates operational status and fault conditions, automatically starting or stopping the engine on load demand or fault condition.</p> |
| <p>DSE8620</p>  | <p>AMF/ SYNCHRONISING / LOAD SHARE / SET TO MAINS</p> <p>The DSE8620 is an Auto Mains (Utility) Failure Control Module suitable for paralleling single gensets (diesel or gas) with the mains (utility) supply. The module will automatically start the generator on detection of a mains failure, and will control the switchover from and back to the mains (utility) supply, offering an uninterrupted return. The modules synchronising functions include automatic synchronising with built-in synchroscope and closing onto dead bus. Direct and flexible outputs from the module are provided to allow connection to the most commonly used speed governors and automatic voltage regulators (AVRs).</p> |

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REMOTE MONITORING **JUBILEE WN RANGE**

The DSEWebNet Gateway Modules are used in conjunction with supported DSE controllers to provide monitoring and communications data via the DSEWebNet® advanced communications system.

Gateway modules available are the DSE890 (3G/GSM/GPS/Ethernet), DSE891 (Ethernet only) and DSE892 (SNMP). The Gateway communicates to the connected DSE controller(s), monitoring the instrumentation and operating state. When this data changes, the new data is logged in the internal memory. At regular intervals the logged data is transmitted to the DSE host server.

The DSE host server is then integrated into the DSEWebNet® which can be accessed via an internet connected device and web browser to allow remote monitoring and control of multiple DSE controllers around the globe.

GSM, GPS and GSM/GPS antenna's are available as accessories.



AUTOMATIC TRANSFER SWITCHES **JUBILEE JTS RANGE**

Jubilee Transfer Switches combine reliability and flexibility in a small, economical package for transferring loads between a utility and a generator set, or between two generators.

Jubilee Transfer Switches and the control mechanisms are mounted in a key-locking enclosure. Enclosures meet IEC 60947-6-1 standard. Our 100-400 Amp switches are front-connected.

The microprocessor control monitors the utility and the standby generator power. When utility power fails, or is unsatisfactory, the control starts the generator. When stable utility power returns, the switch automatically transfers the load back to the utility.

A variety of Transfer Switches are available to suit multiple applications. For more information, see our **JTS Range** brochure.



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