



Model C690 Ground Power Unit 90,100 and 140kVA output, with optional 28V DC

The C690 is a low noise Ground Power Unit suitable for servicing 400Hz AC and 28V DC electrical systems on all types of aircraft. Powered by a diesel engine, coupled to a Houchin alternator, the unit is mounted on a monocoque chassis with integral cable trays. It is protected by our unique sliding weatherproof canopy and is designed for maximum access.

The company's quality procedures are certified to: BS EN ISO 9001:2000

EU STAGE III A EMISSIONS COMPLIANT

Configuration

Trailer Mounted

A rugged monocoque construction in fabricated sheet steel with extensive corrosion protection. Fifth wheel steering, fitted with leaf springs and four 18x7 pneumatic tyred wheels.

Truck Mounted

The unit can be supplied without undergear for mounting on to the customer's choice of vehicle.

Optional Equipment

A complete list of options is available upon request.

Performance

Мос Туре		kVA Rating	Continuous Peak Overload kVA	Engine	Cylinders	Engine Type	Fuel Type	Electrical System	Cooling System	Coolant
C69		90 100	112 112	Cummins QSB 160BHP	6	4 Stroke Turbo Charged	Diesel	24 Volt	Tropical Radiator and Fan	Water
C69	90	140	154	Cummins QSB 215BHP	6					

Features Applying To All Models

Voltage Range 115/200 Volts

 Phase
 3

 Hz
 400

 Power Factor
 0.8 cos ∅

Voltage Regulation +/- 1% (steady state)
Voltage Transient +/- 20% (100% load change)

Transient Recovery 0.2 secs.

Frequency Regulation +/-2Hz (steady state)
Frequency Transient +/-10Hz (100% load change)

Transient Recovery 1.0 secs.

Peak Load 110% continuous at 0.8 p.f





Technical Specification

Electrical Standards

BS 5000 pt, 99, BS 2G219 (ISO 6858), Insulation class 'H' throughout and varnished to provide a moisture-proof protection.

Operating Equipment

Provides rated output at temperatures of between -25° and +40°c and altitudes of up to 1000m ASL. Contact manufacturer for appropriate de-ratings for higher values than those stated.

Generator

Houchin designed and manufactured brushless, synchronous alternator. Revolving field salient pole type with a single bearing. Coupled to the engine flywheel by means of a spring steel disc.

Electrical Controls

ON/OFF Pushbuttons
Power 'ON' lamp
Digital instrumentation to read – volts,
amps and frequency.

Interlock-bypass switch with indicator Excite pushbutton

Panel lamps with switch

Engine Controls

Start keyswitch Idle/service switch Hours counter

Digital Cam-bus Reader

Displaying:

Engine temperature

Oil pressure

Enaine hours

Battery voltage

Engine fault coder

Protection

Over voltage

Under voltage

Over frequency

Under frequency

Overload

Low oil pressure

High engine temperature

Fuel Tank

With sufficient capacity to give approximately 10 hours full load running. Complete with contents gauge.

Output Cable

AC output cable 7.6m long, complete with a standard 6-pin socket. DC output cable 10m long, complete with a standard 3-pin socket.

Noise Attenuation

Engine dBA@3M Cummins QSB 160BHP 84 Cummins QSB 215BHP 87

Testino

All equipment is fully tested before leaving our works, and test certificates are available upon request.

Publications

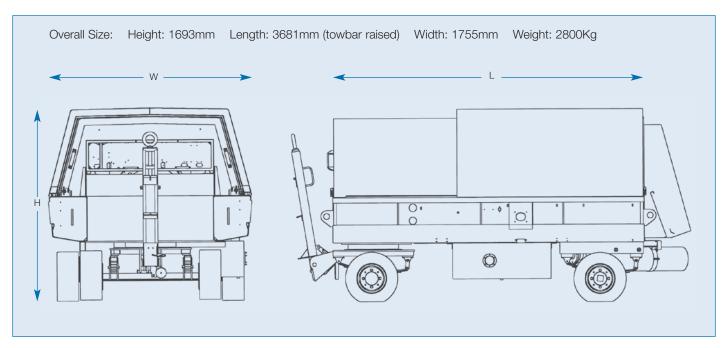
A comprehensive manual is included, containing sections covering general description and operating instructions, service/maintenance, fault diagnosis and overhaul procedures and illustrated parts list.

Servicing

The equipment is designed for ease of maintenance and inspection.

Training

Training courses on the equipment are held at regular intervals, details and costs available on application.









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