Cummins-powered diesel generator

PRODUCT OVERVIEW / 50 Hz / Sound-attenuated enclosure



PRIME POWER · PRP

325 kVA / 260 kW

STANDBY POWER · ESP

358 kVA / 286 kW

GENERATOR SET	
Model	C350-BW
Frequency / speed	50 Hz / 1500 rpm
Output voltage / wiring	400 / 230 V · 3-phase, 4-wire
Power factor	0.8 lagging
Engine	Cummins 6LTAA9.5-G1
Alternator	Blackwell FA range · QYI-314ES
Control module	Deep Sea Electronics DSE6120
Enclosure	Silent, sound-attenuated canopy

A Cummins-powered generator with automatic mains failure control, an integral fuel tank and a galvanised canopy and chassis.

Engine & alternator

TECHNICAL SPECIFICATIONS

CUMMINS 6LTAA9.5-G1

Configuration	4-stroke, 6 cylinders in line
Displacement	9.5 L
Bore × stroke	116.5 × 148 mm
Compression ratio	16.6 : 1
Aspiration / governor	Turbocharged / electronic
Cooling / speed	Closed water cooling / 1500 rpm
Engine dry weight	750 kg
Starter	7.5 kW / DC 24 V

Lube capacity	28 L
Maximum oil temperature	121 °C
Coolant capacity	34 L
Coolant flow rate	180 L/min
Intake restriction: clean filter	3.7 kPa
Intake restriction: dirty filter	6.2 kPa
Intake flow at prime rating	16.84 m³/min

FUEL CONSUMPTION

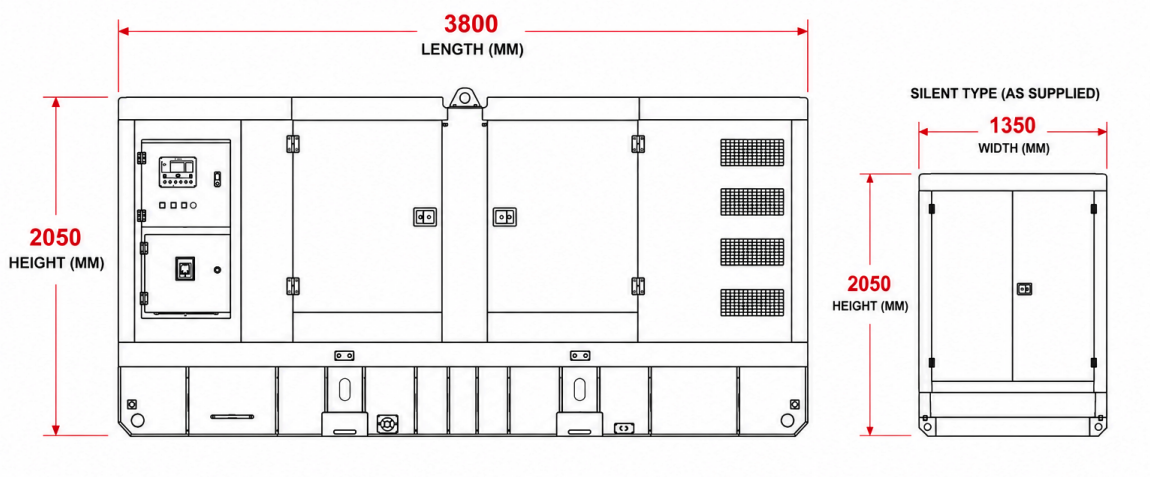
Operating point	L/h	g/kWh
Standby (110%)	78	200
Prime (100%)	70	199

BLACKWELL FA QYI-314ES ALTERNATOR

Rated power	325 kVA / 260 kW	Poles / winding pitch	4 / 2/3
Bearing	Single bearing	Protection	IP23
Insulation / temperature	H / H	Voltage regulation	AVR ±1%
Excitation	Brushless self-exciting	Space heater	Standard
Telephone impact factor	< 50	Telephone harmonic factor	< 2%

Dimensions & equipment

INSTALLATION DATA / STANDARD SUPPLY



Configuration	Length	Width	Height	Weight
Open type	2916 mm	1212 mm	1741 mm	2643 kg
Silent type	3800 mm	1350 mm	2050 mm	3415 kg

AUXILIARY SYSTEMS

Cooling radiator	50 °C ambient
Circuit breaker	CDM6i-630L/3300 · 630 A
ATS switchgear (optional)	SKT1-630/4P
Starting battery	Maintenance-free, with float charger
Fuel tank	Bunded sump · 8-hour capacity
Base frame	Base tank, shock absorbers and battery holder
Engine equipment	Self-contained oil-water separator; standard coolant heater
Alternator equipment	Space heater included

STANDARD SUPPLY

Installation accessories: Corrugated vibration isolators, exhaust bends, industrial silencers, standard connection parts and tool kit.

Documentation: Electrical drawings, operation and maintenance manuals, generator test report and certificates of conformity.

Canopy & chassis

GALVANISED CONSTRUCTION / SOUND ATTENUATION





Galvanised sound-attenuated canopy and chassis, with access doors for routine inspection and servicing.

Control & protection

DEEP SEA ELECTRONICS DSE6120





AUTOMATIC CONTROL	
Module	Deep Sea Electronics DSE6120
Operating functions	Auto-start and automatic mains failure (AMF) control
Indicators	LED indicators
Configurable inputs	6 digital inputs + 3 analogue senders
Configurable outputs	6

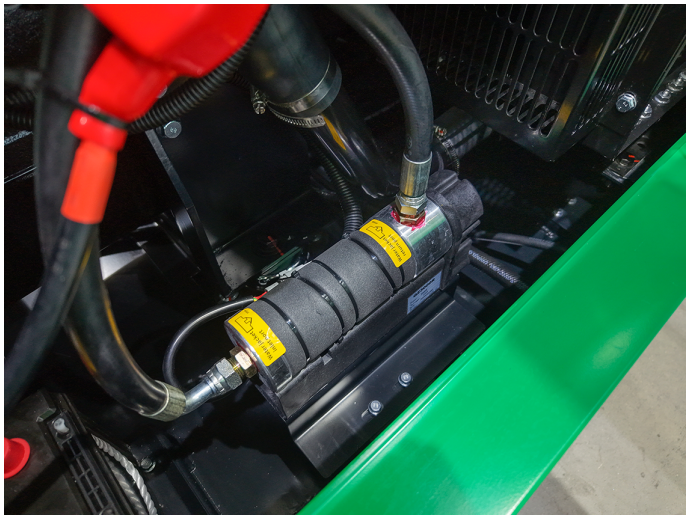


The enclosed control panel brings generator controls and monitoring together in an accessible location.

Insulation & engine equipment

ENCLOSURE DETAILS / OPERATING CONDITIONS





Acoustic insulation

Sound-attenuating, fire-resistant insulation.

Fuel valve & engine heater

Three-way valve for quick filling and an engine heater.

RATING CONDITIONS	
Reference ambient temperature	40 °C
Reference altitude	1000 m above sea level
Frequency regulation	±0.25 Hz steady state
Voltage regulation	±1% from no load to full load
Standards compliance	ISO 8528, BS EN 60034

RATINGS & OPTIONS

All ratings are at 40 °C ambient temperature and 1000 m altitude unless stated otherwise. Prime ratings apply to variable-load operation for an unlimited number of hours. Standby ratings apply to emergency power during a utility power outage. Derating may be required at elevated temperatures or altitudes.

ABB circuit breakers and AISIKAI ATS are available as factory-fitted options. Confirm requirements at the time of order.

Specifications are subject to change without notice as part of continuous product development.