



IW56C

Prime Power: 45 kW / 56 kVA
Standby Power: 49.3 kW / 61.6 kVA

DIESEL GENERATOR SET

IW56C

**Reliable power for worksites,
workshops and standby use**

A reliable 56 kVA class generator built around a DCEC Cummins engine, a Leroy Somer alternator, and practical IronWest support.



56 kVA

PRIME POWER

61.6 kVA

STANDBY POWER

50 Hz

FREQUENCY

3 Phase

SUPPLY

POWER YOUR WAY.

08 6816 7999
www.ironwest.com.au
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OVERVIEW

BUILT AROUND PROVEN COMPONENTS

The IW56C delivers reliable 56 kVA class power for commercial sites, workshops, farms and backup applications, combining a DCEC Cummins engine, Leroy Somer alternator and practical IronWest support.

45 kW

PRIME / PRP

49.3 kW

STANDBY / ESP

77.9 A

PRIME CURRENT

415/240 V

VOLTAGE

POWER RATINGS

Voltage	PRP kW	PRP kVA	ESP kW	ESP kVA	Prime Amps
415/240	45	56	49.3	61.6	77.9

A more personal buying experience

- Straightforward generator selection and local support.
- Clear component information before you commit.
- Practical options for control, transfer and site setup.

Core configuration

- DCEC Cummins 4BTA3.9-G2 engine
- Leroy Somer TAL-A42-H brushless alternator
- Diesel, water-cooled, 50 Hz, three phase



THREE PHASES



DIESEL



WATER-COOLED



50 HZ



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ENGINE AND ALTERNATOR

DCEC CUMMINS Engine

Model	4BTA3.9-G2	100% (Prime power)	12.9 L/h
Aspiration	Turbocharged & Aftercooler	75% (Prime power)	10 L/h
Fuel system	BYC A/Electronic Governor	50% (Prime power)	7 L/h
No. cylinders	4	Oil capacity	10.9 L
Displacement	3.9 L	Maximum Oil Temperature	121°C
Bore*Stroke	102 × 120 mm	Oil pressure (continuous operation)	207-345 kPa
Compression ratio	17.3 : 1	Max inlet pressure-dirty element	6.2 kPa
Rated speed	1500 r/min	Max inlet pressure-clean element	3.7 kPa
Rated net power(with fan)	50 kW	Intake air flow	49 litre/sec
Governor type	Electronic	Exhaust gas flow	125 litre/sec
Start motor	24 V	Exhaust gas temp	526°C
		Max back pressure	10 kPa
		Coolant capacity	8.3 L
		Thermostat operation range	83-95°C
		Max top tank temperature	100°C

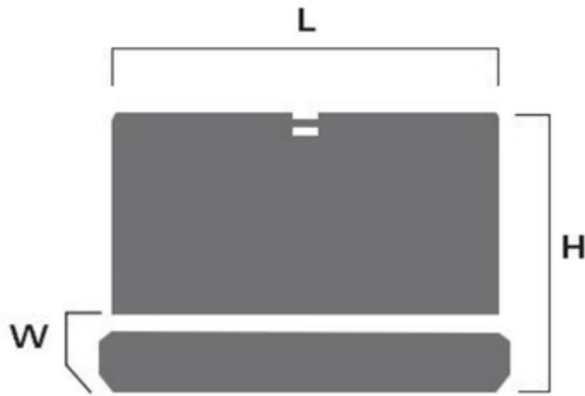
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|---------------------|--------------|---|
| • Diesel engine | • Air filter | • Hot protection |
| • Water-cooled | • Radiator | • Moving parts protection |
| • Electrical system | • Governor | • Radiator water level sensor (Optional). |



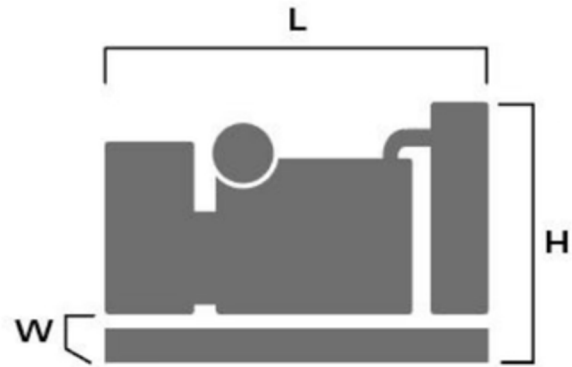
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WEIGHT AND DIMENSIONS



Silent Type



Open Type

	Length	Width	Height	Weight	Fuel tank	sound level
	(mm)	(mm)	(mm)	(kg)	(L)	(dB(@7m))
Open Type	1850	800	1290	920	--	≤87
Silent Type- SA	2538	1000	1600	--	240	≤75

ALTERNATOR

Wiring type	3 Phase 4 Pole, Y type	Exciter type	Brushless, self-excitation
Bearing	1	Voltage regulation	+/- (0.25%~1%)
Power factor	0.8	Protection grade	IP 23
Frequency	50 Hz	Insulation class	H
Overspeed	2250	Altitude(m)	≤1000



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FEATURES AND OPTIONS

Standard Features

- Engine(DCEC Cummins)
- Radiator 50°C max, fans are driven by belt
- Charge alternator
- Alternator: single bearing alternator IP23,insulation class H/H
- Standard auto control system
- One set of air filter, fuel filter, oil filter
- MCCB
- Fuel tank
- Batteries, rack and cable
- Exhaust system with ripple flex exhaust pipe, flange and muffler
- User manual
- Water oil separator

Available Options

- Battery charge
- Engine heater
- Alternator heater
- PMG
- Daily fuel tank
- Remote control panel
- Automatic transfer switch / ATS
- Switch box

● Standard ○ Optional



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PROTECTIVE FUNCTIONS



DEEPSEA DSE6120

- Low oil pressure
- High water temperature
- High/low voltage
- High engine temperature and overspeed
- Voltage regulator frequency regulator
- Emergency stop
- Start failure

CONTROL MODULE OPTIONS



SMARTGEN CONTROLLER

- Auto generator control module
- Remote monitoring and control functions
- ATS auto load transfer screen
- Synchronising control modules
- Power output cabinet



COMAP INTELILITE 9



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COMPLIANCE

CERTIFIED, SUPPORTED AND READY FOR SITE

IronWest generator sets are supplied with supporting quality certification, including ISO 9001, ISO 14001 and ISO 45001. The IW56C is presented with CE/EC compliance information for applicable European directives.



Verification / regulation	Referenced standard or directive
Quality systems	ISO 9001, ISO 14001, ISO 45001
Machinery / generator set safety	BS EN ISO 12100:2010; BS EN ISO 8528-13:2016
Electrical / EMC compliance	BS EN 60204-1:2018; BS EN IEC 61000-6-2:2019; BS EN IEC 61000-6-4:2019
ECM mark	EN ISO 3744:2010; related to CE directive 2000/14/EC (Noise)
European directives	EMC Directive 2014/30/EU; EN 55012:2007+A1:2009
GBR regulation	Supply of Machinery (Safety) Regulations 2008; Electromagnetic Compatibility Regulations 2016

Need a practical power recommendation?

Talk to IronWest about load profile, site conditions, transfer requirements and the right control package for the way you use power.

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