



IW22C

Prime Power: 17.6 kW / 22 kVA
Standby Power: 19.8 kW / 24.2 kVA

DIESEL GENERATOR SET

IW22C

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

A reliable 22 kVA class generator built around a DCEC Cummins engine, a Leroy Somer alternator, and practical IronWest support.



22 kVA

PRIME POWER

24.2 kVA

STANDBY POWER

50 Hz

FREQUENCY

3 Phase

SUPPLY

POWER YOUR WAY.

08 6816 7999
www.ironwest.com.au
info@ironwest.com.au



IW22C

Prime Power: 17.6 kW / 22 kVA
Standby Power: 19.8 kW / 24.2 kVA

OVERVIEW

BUILT AROUND PROVEN COMPONENTS

The IW22C is sized for small commercial, construction, rural and backup power work where dependable output matters more than unnecessary complexity.

17.6 kW

PRIME / PRP

19.8 kW

STANDBY / ESP

30.6 A

PRIME CURRENT

415/240 V

VOLTAGE

POWER RATINGS

Voltage	PRP kW	PRP kVA	ESP kW	ESP kVA	Prime Amps
415/240	17.6	22	19.8	24.2	30.6

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 4B3.9-G11 engine
- Leroy Somer brushless alternator
- Diesel, water-cooled, 50 Hz, three phase



THREE PHASES



DIESEL



WATER-COOLED



50 HZ



IW22C

Prime Power: 17.6 kW / 22 kVA
Standby Power: 19.8 kW / 24.2 kVA

ENGINE AND ALTERNATOR

DCEC CUMMINS Engine

Model	4B3.9-G11	100% (Prime power)	5.7 L/h
Aspiration	Naturally Aspirated	75% (Prime power)	4.6 L/h
Fuel system	WF A/RSV	50% (Prime power)	3.7 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	18.0:1	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)	20 kW	Intake air flow	32.9 litre/sec
Governor type	Mechanical	Exhaust gas flow	70 litre/sec
Start motor	24 V	Exhaust gas temp	380°C
		Max back pressure	10 kPa
		Coolant capacity	7.2 L
		Thermostat operation range	83-95°C
		Max top tank temperature	104°C

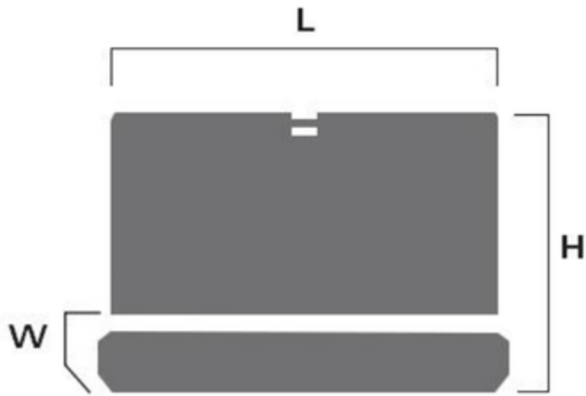
- | | | |
|---------------------|--------------|---|
| • Diesel engine | • Air filter | • Hot protection |
| • Water-cooled | • Radiator | • Moving parts protection |
| • Electrical system | • Governor | • Radiator water level sensor (Optional). |



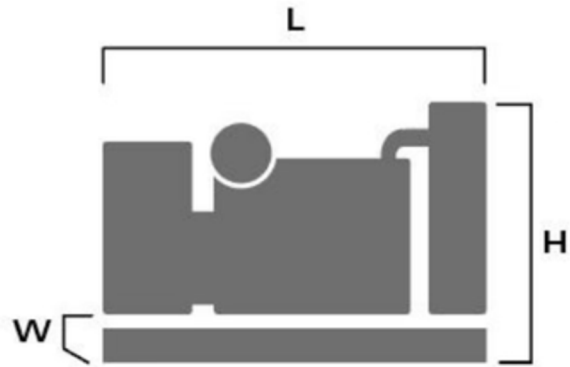
IW22C

Prime Power: 17.6 kW / 22 kVA
Standby Power: 19.8 kW / 24.2 kVA

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	1260	--	--	≤87
Silent Type- SA	2388	1000	1500	--	110	≤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



IW22C

Prime Power: 17.6 kW / 22 kVA
Standby Power: 19.8 kW / 24.2 kVA

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



IW22C

Prime Power: 17.6 kW / 22 kVA
Standby Power: 19.8 kW / 24.2 kVA

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



IW22C

Prime Power: 17.6 kW / 22 kVA
Standby Power: 19.8 kW / 24.2 kVA

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 IW22C 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.

info@ironwest.com.au

POWER YOUR WAY.

08 6816 7999
www.ironwest.com.au
info@ironwest.com.au