



## MODEL MCW-100 INDUSTRIAL RANGE

### Increased availability for new operations

Reliable, robust and versatile generator. Ready to deliver power for a next job.

### Increased uptime during operations

Once installed on the end-user-site, the generator will be ready to run: "peace of mind" operation.

### Reduced transport and installation costs

The compact and robust design with integrated transport features enables faster and safer transport and installation.

### Reduced service & maintenance costs

Longer service intervals.  
Quicker and more efficient service jobs.

### Technical Data

Rated Prime Power	100kVA
Rated standard power	110kVA
Rated voltage line to line	400/230V
Rated Current	144A
Maximum sound level	96 dB (@7m)

### Engine Cummins

Model	6BT5.9-G
Aspiration	Turbo
Fuel system	AD type
No. cylinders	6 in line
Displacement	5.9
Bore x Stroke	102 x 120mm
Compression ratio	17.5
Rated speed	1500 r/min
Governor type	Mechanical/Electrical
Start Motor	24V

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 INDUSTRIAL RANGE

### Exhaust System

Exhaust gas flow	16.8m <sup>3</sup> /min
Exhaust gas temp	545°C
Max back pressure	10kPa

### Alternator

Model	Stamford UCI274C
Phase	3
Voltage	400/230
Wiring Type	3 Phase 4 wire
Bearing	1
Power factor	0.8
Frequency	50Hz
Prime power	100kVA
Exciter Type	Brushless, self-excitation
Voltage regulation	±0.5
Protection Grade	IP 23
Insulation grade	H/H
Altitude	≤1000

### Aspiration System

Max inlet pressure	6.35kPa
Combustion volume	6.48m <sup>3</sup> /min
Air flow	158m <sup>3</sup> /min

### Lubrication System

Oil capacity	16.4L
Oil consumption	≤4g/kwh
Oil pressure	345kPa

### Cooling System

Coolant capacity	27L
Thermostat operation range	82-95°C
Max water temperature	104°C

### Fuel System

100% load (Prime power)	22L/h
75% load (Prime power)	17L/h
50% load (Prime power)	11L/h
Fuel tank capacity	235L

**Standard features:**

- Galvanised Canopy
- Radiator 50°C max, fans are driven by belt
- 24V charge alternator
- Alternator: single bearing alternator IP23,
- Insulation class H/H
- Standard auto control system
- Socket Pack
- Main line circuit breaker/MCCB
- Bunded Base
- Two 24V batteries, rac and cable
- Exhaust system (Ripple flex exhaust pipe Exhaust siphon, flange, muffler)
- User manual
- Battery charge
- Engine heater
- Daily fuel tank

**Options:**

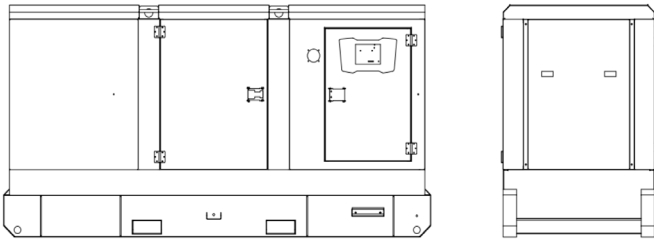
- Alternator heater
- PMG
- Water oil separator
- Remote control panel
- Automatic transfer switch/ATS
- Switch box
- Additional Options Available

**Warranty:**

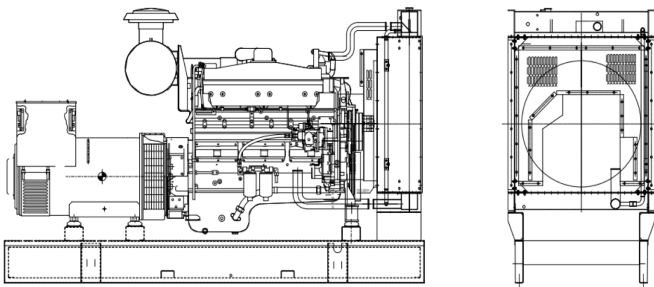
12 months from date of purchase or 1000 hours (whichever occurs first).

## Dimensions

## MODEL MCW-100 INDUSTRIAL RANGE



Silent Type	
Length	2930mm
Width	1080mm
Height	1650mm
Weight	1700kg



Open Type	
Length	2200mm
Width	900mm
Height	1350mm
Weight	1150kg

Please contact MacGen Power Generation Ltd.

**MacGen Power Generation**



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### Control Module

Model: DSE6120

#### Protective functions:

- 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



- Auto generator control module
- Control module with " Three Remote Control " functions
- ATS auto load transfer screen
- Synchronising control modules
- Power output cabinet