



# Powerzone Technologies Pte Ltd

Generator sets powered by Perkins engine

Prime: 100KVA/80KW  
Standby: 110KVA/88KW



## POWER THAT NEVER FAILS

Founded in 2009, Powerzone Technologies Pte Ltd specialized in the manufacturing of power generator sets and power plant solutions provider.

Powerzone Technologies is one of the leading power generation solution providers in Singapore, supplying High-Quality generator sets, and spare parts to a wide range of industries worldwide.

Our engines are supplied by the world's largest engine manufacturers, namely Perkins and Cummins as well as Caterpillar, MTU and Mitsubishi.

Designed to provide reliable power even in the most extreme climates and performed above and beyond expectations in ambient testing.

Custom designed and built to reduce service & maintenance costs.

## Technical Data

### Generator Set Model: PZ-100P

Prime power (kVA/kW)	100/80
Standby power (kVA/kW)	110/88
Rated voltage line to line (V)	230/400
Rated current (A)	144
Maximum sound level (dBA@7m)	72

### Cummins Engine Model: 1104C-44TAG2

Aspiration	Four-stroke, water-cooled, in line, turbo charged
Fuel system	Direct injection
Number of cylinders	4
Displacement (L)	4.4
Bore*Stroke (mm)	105x127
Compression ratio	18.2:1
Rated speed (r/min)	1500
Governor	Electrical
Engine net weight (kg)	550
Firing order	1-3-4-2
Start motor (V)	12

### Lubrication System

Oil capacity	8
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### Cooling System

Total coolant capacity	12.6
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### Standard Features

Perkins engine, radiator 50°C max, cooling fans are driven by fan belt, 12V charge alternator

24V charge alternator, single bearing alternator IP23

Insulation class H/H, standard auto control system

Main line circuit breaker / ACB, base fuel tank, 12V batteries, rac and cable

Exhaust system(Ripple flex exhaust pipe), Exhaust siphon, flange, muffler

User manual, battery charge



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## Options

Water heater, alternator heater, PMG, water oil separator, daily fuel tank, remote control panel,

One set of air filter, fuel filter, oil filter, Automatic Transfer Switch (ATS), switch box

## Alternator

Model	UCI274C
Alternator brand	Stamford
Phase	3
Voltage (V)	230/400
Wiring type	12 wires
Bearing	1
Power factor	0.8
Frequency (Hz)	50
Prime power (kVA)	100
Exciter type	Brushless, self-excitation
Voltage regulation (%)	±0.5
Protection grade	IP 23
Insulation grade	Class H

## Controller-Deepsea

Model

DSE 6120

Comprehensive synchronising & loadsharing

Built-in governor and AVR control

Base load (kW export) functionality

Mains (utility) de-coupling protection

Generator power (kW, kVA) monitoring

Overload (kW & kVAR) protection

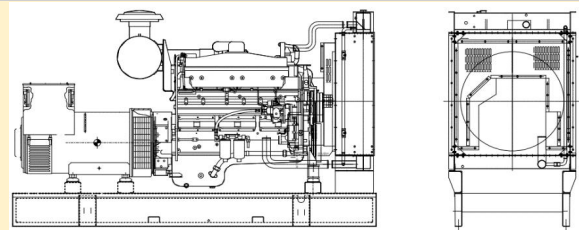
Emergency stop, Auto-Main-Failure (AMF)



## Generator Set Dimension (Basic unit)

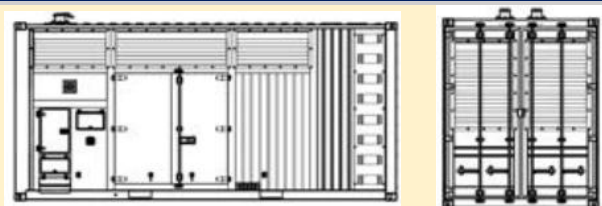
### Open Type

L\*W\*H (mm) : 2150\*950\*1250  
Weight (kg) : 1300



### Silent Type

L\*W\*H (mm) : 2700\*1100\*1450  
Weight (kg) : 1650



## Warranty

Perkins Engine

12 months from date of delivery.

Generator

12 months from date of delivery.

## Powerzone Technologies Pte Ltd

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