

MODEL	P920C-60
Standby Power (60Hz)	920KW / 1150KVA
Prime Power (60Hz)	840KW / 1050KVA

Standard Features

General Features:

- Engine (CCEC Cummins KTA38-G4)
- Radiator 40°C max, fans are driven by belt, with safety guard
- 24V charge alternator
- Alternator (STAMFORD) , single bearing alternator IP23, insulation class H/H
- Absorber
- Dry type air filter, fuel filter, oil filter
- Main line circuit breaker
- Standard control panel
- Two 12V batteries, rack and cable
- Ripple flex exhaust pipe, exhaust siphon, flange, muffler
- User manual



Generator Ratings

Voltage	HZ	Phase	P.F (COS ϕ)	Standby Amps	Standby Ratings (KW/KVA)	Prime Ratings (KW/KVA)
440/254	60	3	0.8	1641	920/1150	840/1050
480/277	60	3	0.8	1504	920/1150	840/1050

Prime Power 1800 (PRP): Prime power is available for an unlimited number of annual hours in variable load application, in accordance with GB/T2820-97 (equiv ISO8528) ; A 10% overload capability is available for a period of 1 hour within a 12-hour period of operation.

Standby Power Rating (ESP): The standby power rating is applicable for supplying emergency power for the duration of a utility power interruption. No overload, utility parallel or negotiated outage operation capability is available at this rating.

Sales Promises

Powerworld provides a full line of brand new and high quality products. Each and every unit is strictly factory tested.

Warranty is according to our standard conditions: 12 months or 1,000 running hours, subject to the earlier one.

Service and parts are available from Powerworld or distributors in your location.

ENGINE DATA

Manufacturer / Model:	CCEC Cummins KTA38-G4
Air Intake System:	Turbo, Water/Air Cooling
Fuel System:	PB/W type fuel pump
Cylinder Arrangement:	12 in V
Displacement:	37.8L
Bore and Stroke:	159×159 (mm)
Compression Ratio:	13.9:1
Rated RPM:	1800rpm
Max. Standby Power at Rated RPM:	1100KW/1319HP
Governor Type:	Electronic
Frequency Regulation, Steady State:	≤1.5%

Exhaust System

Exhaust Gas Flow:	3306L/s
Exhaust Temperature:	513℃
Max Back Pressure:	10kPa

Air Intake System

Max Intake Restriction:	6.23kPa
Burning Capacity:	1213L/s
Intake Flow:	34950L/s

Fuel System

110%(Standby Power) Load:	221.7L/h
100%(Prime Power) Load:	199.4L/h
Total Fuel Flow:	428L/h

Oil System

Total Oil Capacity:	135L
Oil Consumption:	≤4g/kwh
Engine Oil Tank Capacity:	114L
Oil Pressure at Rated RPM:	297-483kPa

Cooling System

Total Coolant Capacity:	308L
Thermostat:	82-93℃
Max Water Temperature:	104℃

Emissions

HC:	0.18g/BHP.hr
NO _x :	10.64g/BHP.hr
CO:	1.96g/BHP.hr
PM:	1.29g/BHP.hr
SO ₂ :	0.61g/BHP.hr

ALTERNATOR SPECIFICATION

GENERAL DATA

Compliance with GB755, BS5000, VDE0530, NEMAMG1-22, IED34-1, CSA22.2 and AS1359 standards.

Alternator Data

Manufacturer / Type:	STAMFORD
Number of Phase:	3
Connecting Type:	3 Phase and 4 Wires, "Y" type connecting
Number of Bearing:	1
Power Factor:	0.8
Protection Grade:	IP23
Altitude:	≤1000m
Exciter Type:	Brushless, self-exciting
Insulation Class, Temperature Rise:	H/H
Telephone Influence Factor (TIF):	<50
THF:	<2%
Voltage Regulation, Steady State:	≤±1%
Alternator Capacity:	1145KVA
Alternator Efficiencies:	94.2%
Air Cooling Flow:	2.21m ³ /s

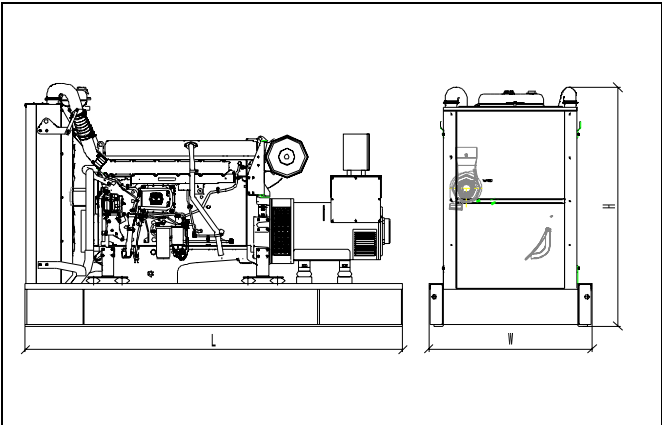
GENERATING SET DATA

Voltage Regulation:	≥±5%
Voltage Regulation, Stead State:	≤±1%
Sudden Voltage Warp (100% Sudden Reduce):	≤+25%
Sudden Voltage Warp (Sudden Increase):	≤-20%
Voltage Stable Time (100% Sudden Reduce):	≤6S
Voltage Stable Time (Sudden Increase):	≤6S
Frequency Reduce:	≤5% Adjustable
Frequency Regulation, Stead State:	≤1.5%
Frequency Waving:	≤0.8%
Sudden Frequency Warp (100% Sudden Reduce):	≤+12%
Sudden Frequency Warp (Sudden Increase):	≤-10%
Frequency Recovery Time (100% Sudden Reduce):	≤5S
Frequency Recovery Time (Sudden Increase):	≤5S
Noise Level:	dB
Emission Level:	Euro I

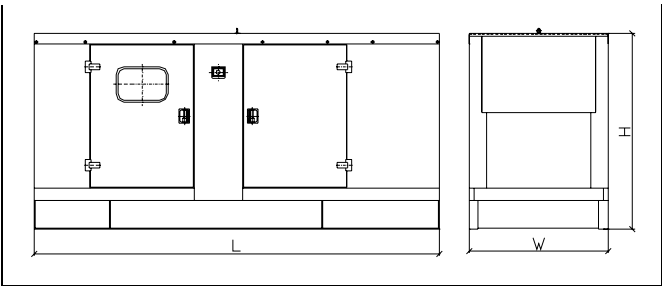
Options

Engine	Fuel System	Control System
<ul style="list-style-type: none">● Heater● Battery Charger	<ul style="list-style-type: none">● Daily Fuel Tank● Base Fuel Tank● Water Separator	<ul style="list-style-type: none">● Auto Control Panel● Remote Control Panel● Auto Transfer Switch (ATS) Control Panel● Paralleling System● Electricity Output Cabinet
Alternator	Others	Data
<ul style="list-style-type: none">● Anti Condensation Heater● Permanent Magnet Generator (PMG)● Drop CT (For Paralleling)	<ul style="list-style-type: none">● Rainproof Type● Soundproof Type● Trailer Type	<ul style="list-style-type: none">● Engine Parts Drawing List● Spare Parts

Dimension & Weight



Standard Configuration (Open Type)
Overall Size: 4750 (mm) × 1850 (mm) × 2430 (mm) Weight: 7500kg
With Base Fuel Tank
Overall Size: 4750 (mm) × 1850 (mm) × 2450 (mm) Weight: 7550kg



Soundproof Type
Overall Size: 20'ft container Weight: 9150kg

Standard Control Panel



PowerWorld Standard Control Panel is the basic configuration for normal operation and usage, it is of some advantages such as easy to operate, various function and well protection. Operative buttons such as Turn On, Per-heat, Starting, Stop (Emergency Stop) on the panel. While malfunction occurs, control panel will stop the generator and also alarm with light or buzz.

Auto Module Control Panel



Automatic Control Panel is the basic configuration for nobody on duty controlling generators. This kind of panel can accept the remote start/stop signals. (Controlled by ATS)

Features: adopted Czech Comap Brand auto control system, with large LCD display in English (or Chinese) to show the menu. With Auto Control Panel, generator are of various functions such as auto/manual stop (emergency stop), programmable plugs for input and output, detected data, symbols, diagram will show in the LCD, etc.

Auto Remote Control Panel



Automatic Remote Control Panel is based on the Auto Control Panel and add the standard communication plugs: RS-232 (Modbus Communication Agreement). With Auto Remote Control Panel, it can realize remote control, remote detective, remote report by user using communicative net or center inspect and control system.