

## Diesel Generating Set

## PP825C

MODEL	PP825C
Standby Power (50Hz)	660KW / 825KVA
Prime Power (50Hz)	600KW / 750KVA

### Standard Features

#### General Features:

Engine (CCEC Cummins KTA38-G2)

Radiator 50°C max, fans are driven by belt, with safety guard

24V charge alternator

Alternator: single bearing alternator IP23, insulation class H/H

Absorber

Dry type air filter, double fuel filter, oil filter, coolant filter

Main line circuit breaker

Permanent Magnet Generator (PMG)

Standard control panel

Two 12V batteries, rack and cable

Ripple flex exhaust pipe, exhaust siphon, flange, muffler

User manual



PHOTO FOR REFERENCE ONLY

### Generator Ratings

Voltage	HZ	Phase	P.F (COS φ)	Standby Amps	Standby Ratings (KW/KVA)	Prime Ratings (KW/KVA)
440/254	50	3	0.8	1083	660/825	600/750
415/240	50	3	0.8	1148	660/825	600/750
400/230	50	3	0.8	1191	660/825	600/750
380/220	50	3	0.8	1253	660/825	600/750

Prime Power (PRP): Prime power is available for an unlimited number of annual hours in variable load application, in accordance with GB/T2820 (eqv 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.

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### **ENGINE DATA**

Manufacturer / Model:	CCEC Cummins KTA38-G2, 4-cycle
Air Intake System:	Turbo, Air/Water cooling
Fuel System:	PT type fuel pump, EFC
Cylinder Arrangement:	12 in "V"
Displacement:	37.8L
Bore and Stroke:	159*159 (mm)
Compression Ratio:	14.5:1
Rated RPM:	1500rpm
Max. Standby Power at Rated RPM:	731KW/994HP
Governor Type:	Electronic

### **Exhaust System**

Exhaust Gas Flow:	158.04m <sup>3</sup> /min
Exhaust Temperature:	552°C
Max Back Pressure:	10kPa

### **Air Intake System**

Max Intake Restriction:	6.23kPa
Consumption:	55.2m <sup>3</sup> /min
Air Flow:	1140m <sup>3</sup> /min

### **Fuel System**

100% (Prime Power) Load:	214 g/kWh
75% (Prime Power) Load:	218 g/kWh
50% (Prime Power) Load:	205g/kWh
100% (Prime Power) Load:	166.7L/h

### **Oil System**

Total Oil Capacity:	135L
Oil Consumption:	≤4g/kwh
Engine Oil Tank Capacity:	121~151L
Oil Pressure at Rated RPM:	310-448kPa

### **Cooling System**

Total Coolant Capacity:	252L
Max Water Temperature:	104°C

**ALTERNATOR SPECIFICATION****GENERAL DATA**

Compliance with GB755, BS5000, VDE0530, NEMAMG1-22, IED34, CSA C22 and AS1359 standards.

**ALTERNATOR DATA**

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%
Alternator Capacity:	750KVA
Alternator Efficiencies:	93.3%

**GENERATOR 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 Regulation, Stead State:	≤5%
Frequency Waving:	≤0.5%
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

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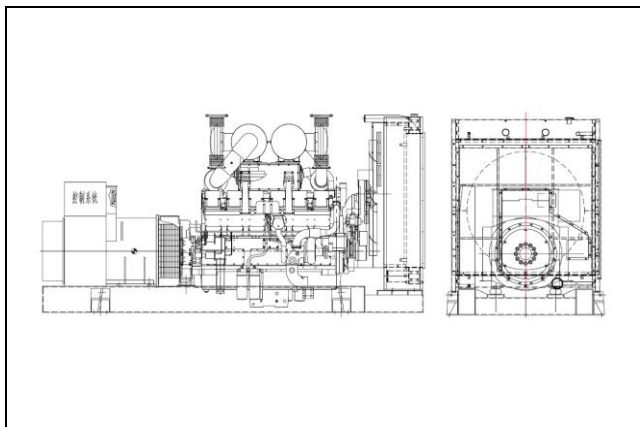
### Standard Features

- ◇ COMAP Auto Control System
- ◇ Starting batteries ( Maintenance-Free & Watering-Free) with connective wires
- ◇ Exhaust System( including until muffler)
- ◇ MCCB
- ◇ Permanent Magnet Generator (PMG)
- ◇ Documents
- ◇ Special tool for Cummins engine
- ◇ Oil Drain Valve

### Options

- ◇ Base Fuel Tank
- ◇ Daily Fuel Tank
- ◇ Battery Charger
- ◇ Engine Heater
- ◇ Water Separator
- ◇ Alternator Heater
- ◇ Soundproof Type
- ◇ Trailer Type
- ◇ Spare Parts
- ◇ Remote Control Panel
- ◇ Automatic Transfer Switch
- ◇ Paralleling System
- ◇ Switch box

### Dimension & Weight



#### Standard Configuration (Open Type)

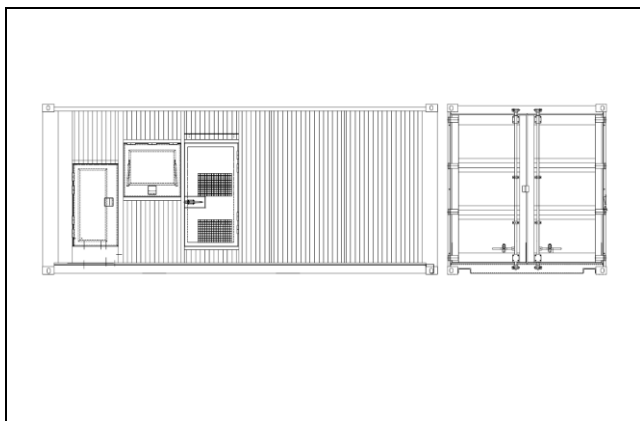
Overall Size: 4870x2050x2400 (mm)

Weight: 7650kg

#### W With Base Fuel Tank ith Base Fuel Tank

Overall Size: 4870x2050x2420 (mm)

Weight: 8350kg



#### Soundproof Type (20'ft container)

Overall Size:6058x2438x2591 (mm)

Weight:11500kg

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### Auto Module Control Panel



The automatic generator control panel is the most basic configuration of the unattended automation unit. The screen can receive remote open / stop group control signals.

ComAp MRS10 intelligent controller; large screen LCD, display menu; the unit has automatic, manual, shutdown (emergency stop) and other control functions, rich programmable output, input interface and humanized interface, multi-functional LCD display, test parameters will pass through. The standard communication interface is RS-232 (Modbus communication protocol), which satisfies the requirements of various automation units through communication (network) or central monitoring system (host computer) to realize the functions of remote control, remote measurement and remote report to the units.

### Auto Parallel Control Panel



**Automatic Parallel Control Panel** This new automatic parallel system adopts intelligent modules, inserted and folded installed, no need the peripheral relay and logic circuit. The main switch adopts electronic breaker or frame breaker, combined together with the generator, which is very reliable. One generator, one panel. The panel can be used both for singly and parallel. It is only need to parallel generator with such panel when the capability needs to be enlarged in the future.

### Sales Promises

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

Warranty is according to our standard conditions: a, 15 months, counted on the day Powergen Pacific sold to the first buyer; b, One year after installation; c, 1000 running hours (accumulated); subject to the earlier one.

Service and parts are available from Powergen Pacific or distributors in your location