

 יוצנים	
rzoc	

MODEL	PP28C		
Standby Power (50Hz)	22KW / 28KVA		
Prime Power (50Hz)	20KW / 25KVA		

### **Standard Features**

#### General Features:

Engine (DCEC Cummins 4B3.9-G1)

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, fuel filter, oil filter

Main line circuit breaker

Standard control panel

Two12V 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¢)	Standby Amps	Standby Ratings (KW/KVA)	Prime Ratings (KW/KVA)
440/254	50	3	0.8	36	22/28	20/25
415/240	50	3	0.8	38	22/28	20/25
400/230	50	3	0.8	40	22/28	20/25
380/220	50	3	0.8	42	22/28	20/25

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.



# **ENGINE DATA**

Manufacturer / Model: DCEC Cummins 4B3.9-G1, 4-cycle

PP28C

Air Intake System: Air natural cooled

Fuel System: A model fuel pump

Cylinder Arrangement: 4 in line

Displacement: 3.9L

Bore and Stroke: 102\*120 (mm)

Compression Ratio: 16.5:1

Rated RPM: 1500rpm

Max. Standby Power at Rated RPM: 27KW/36HP

Governor Type: RSV Mechanical (Std) / Electronic (Optional)

### **Exhaust System**

Exhaust Gas Flow: 4.3m<sup>3</sup>/min

Exhaust Temperature: 410°C

Max Back Pressure: 10kPa

### Air Intake System

Max Intake Restriction: 5kPa

Burning Capacity: 2.0m³/min

Air Flow: 136m<sup>3</sup>/min

### Fuel System

100%( Prime Power) Load: 245 g/kWh

75%(Prime Power) Load: 260 g/kWh

50%(Prime Power) Load:: 296 g/kWh

100%( Prime Power) Load: 6.9L/h

### Oil System

Total Oil Capacity: 11L

Oil Consumption: ≤4g/kwh

Engine Oil Tank Capacity: 8.5~9.5L

Oil Pressure at Rated RPM: 345kPa

# Cooling System

Total Coolant Capacity: 21L

Max Water Temperature: 104°C



# PP28C

# **ALTERNATOR SPECIFICATION**

#### **GENERAL DATA**

Compliance with GB755, BS5000, VDE0530, NEMAMG1-22, IED34, CSAC22 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: 25KVA

Alternator Efficiencies: 87.2%

# **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: ≤1.5%

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



# PP28C

#### **Standard Features**

- Standard Auto Control System
- ♦ Base Fuel Tank
- Starting batteries
   (Maintenance-Free &
   Watering-Free) with connective wires
- ♦ MCCB
- ♦ Oil Drain Valve
- Exhaust System( including until muffler)
- Special tool for Cummins engine
- ♦ One set of fuel filter / oil filter / belt
- ♦ Documents

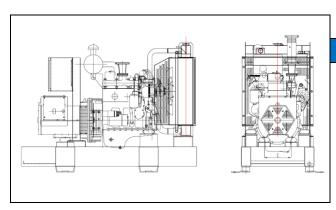
### **Options**

- ♦ Daily Fuel Tank
- ♦ Battery Charger
- ♦ Engine Heater
- ♦ Alternator Heater
- ♦ Water Separator

- Permanent Magnet Generator(PMG)
- ♦ Rainproof Type
- ♦ Soundproof Type
- ♦ Trailer Type

- ♦ Remote Control Panel
- ♦ Automatic Transfer Switch
- ♦ Switch box
- ♦ Spare Parts

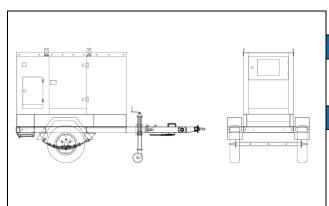
# **Dimension & Weight**



# Open Type with Base Fuel Tank

Overall Size: 1760×760×1380 (mm)

Weight: 730 kg



# Soundproof Type

Overall Size: 2290×1060×1680 (mm)

Weight: 1250kg

#### **Trailer Type**

Overall Size: 2860×1640×2320 (mm)

Weight: 1850kg



#### PP28C

### **Auto Module Control Panel**



Powergen Pacific Standard Control Panel uses micro processing technique integrating digital, intelligent and network techniques which can carry out functions including auto start/stop, data measure, alarming. The controller uses LCD display. It can be widely used in all types of generator automatic control system for compact structure, advanced circuits, simple connections and high reliability. USB interface and ECU support CAN J1939.

# **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