

## CUMMINS POWER GENERATOR SET

### FPS110C – 6BT5.9-G2 + UCI274C

#### MAIN SPECIFICATION OF GENSET FPS110C

Genset model	FPS110C
Prime output (kVA/kW)	100kVA/80kW
Standby output (kVA/kW)	110kVA/88kW
*Voltage, Phase and wire	380/220V, 3phase, 4wires
Maximum output current	167AMP
Engine Brand and model	Cummins 6BT5.9-G2
Alternator Brand and model	Stamford UCI274C
Engine Speed RPM	1500
Frequency	50Hz



\*Ratings at 0.8 power factor

#### Prime Power

These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercial purchased power. There is no limitation to the annual hours of operation and this model can supply 10% overload power for 1h in 12h

#### Standby Power

These ratings are applicable for supplying continuous electrical power (at variable load) in the event of a utility power failure. No overload permitted on these ratings. The alternator on this model is peaking continuous rated (as defined in ISO 8528-3).

#### Rating Definitions

**50Hz 1500rpm:** (Operation at Altitude  $\leq 1500$ m, Ambient temperature  $\leq 40^{\circ}\text{C}$ ) if altitude higher than 1500m, each 100m will cause additional de-rating 1%

#### Quality Standards

Our diesel generating sets meets the following standards: GB/T2820, GB1105, YD/T502, ISO3046, ISO8525, ISO8525-3-5-6

#### Factory Test

Each our generating sets must be got through 1h load test for running 0%, 25%, 50%, 75%, 100% and 110% load before dispatch. All protective devices, control functions are simulated and its system checked, proved and then passed for dispatch. A test certificate can be provided upon request.



This generator set is available with CE certification

ISO8528

This generator set has been designed to comply with ISO 8528 regulation.

## ENGINE SPECIFICATION

Engine Model	• Cummins 6BT5.9-G2
Engine Type	• Water-cooled, 6 Cylinders in line, 4cycle, direct injection
Maximum Output	• 110kW
Aspiration	• Turbocharged
Bore x Stroke	• 102mm x 120mm
Displacement	• 5.9 Liters
Compression Ration	• 17.5:1
Fuel Consumption	• 22L/H (100% Load)
Exhaust Air Flow	• 148m <sup>3</sup> /min
Exhaust Gas Flow	• 14m <sup>3</sup> /min
Exhaust Highest Temperature	• 510°C
Lube-oil Pan capacity	• 16.4 L
Cooling Water Capacity	• 11 L Engine Only
Voltage for Start	• 24V
Instrument for Adjusting Speed	• Electronically
Noise level (A) @ 7m	• ≤96dBA (open)                      • ≤72dBA (enclosed)

## ALTERNATOR SPECIFICATION

Alternator Model	• Stamford UCI274C
Excitation	• Brushless, Self-excited
Insulation Class	• H
Protection Class	• IP23
Connection Type	• Re-connectable
Voltage Regulation	• ≤1.5%
Waveform	• No load <1.5% and non-distorting balanced linear load <5%
Distortion THF/TIF	• <2%/50%

## GENERATOR SET CONTROL PANEL

AC/DC control panel consisting of:

Emergency Stop Button

Controller with selection for auto-start, DSE7320 monitoring and with following (and not restricted to) features:

- Start/Stop button
- Hour run meter
- Monitor engine temperature and provides shutdown protection
- Monitor engine speed and provides shutdown protection
- Monitor oil pressure and provides shutdown protection
- Alarm output for abnormal operation

## STANDARD FEATURES

### Control System

- DSE Control panel with communication interface

### Fuel System

- Fuel filter with integral water separator
- Open type without base fuel tank, silent type with base fuel tank for  $\leq 680\text{kVA}$

### Starting/Charging System

- 24V starting motor(s)
- Batteries with rack and cables
- Battery charger

### Exhaust System

- Stainless steel industrial exhaust Muffler for silent type

### Lube System

- Lubricating oil filter; Oil drain with valves
- Lube oil pressure indicator

### Cooling System

- 40°C radiator with guard sized for open type
- 50°C radiator for silent type

Coolant drain line with valve fan and belt guards

### Air inlet System

- Heavy duty air cleaner
- Service indicator

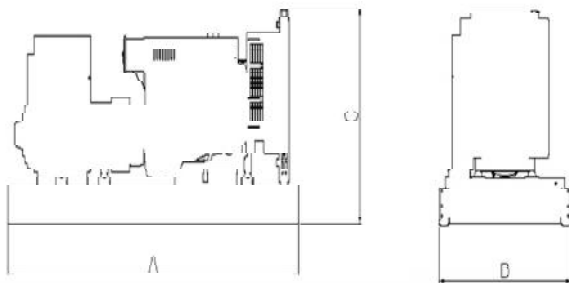
### Alternator & Breaker

- Class H insulation
  - Automatic voltage regulator
  - PMG
  - IP23 Protection
- ABB or GE circuit breaker

## DIMENSIONS AND WEIGHT

Genset Type	Length(L) mm "A"	Width (W) mm "B"	Height (H) mm "C"	Weight Kg
Open set	2160	1030	1550	1250
Enclosed set	2900	1080	2000	1350

### Open Set



### Enclosed Set



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