Diesel Generator Set

Power Generation

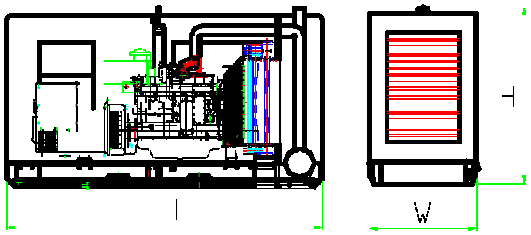
C-140KS

General Features

- Every generator set is subjected to a comprehensive test program which includes 50% load, 75% load, 100% load, 110% load and the checking and proving of all control and safety shut-down functions.
- Equipped with battery charger and 24V high performance maintenance-fre lead-acid starting batteries and connecting with cables.
- Equipped with industrial silencer and flexible exhaust hose.
- Equipped with 8-hours operation base tank;
- Equipped with CHINT MCCB circuit breaker;
- Designed to Comply with ISO8528/GB2820;
- Powered by Cummins engine and coupled with Stamford alternator.

Benefits

- Function stability credibility, service convenience;
- Low operating cost results in optional economy;
- Gets the job done wherever you are;
- Ease of installation, operation and maintenance.



Dimension and Weight

Length(L)	mm	3200
Width(W)	mm	1130
Height(H)	mm	1700
Weight	kg	1900
Tank capacity	L	300

Environment Condition

Environment temperature	℃	≤50
Relative humidity	%	≤90
Altitude	m	≤1000

Genset Technical Data

Prime power	140 kVA
Standby power	150 kVA
Rated speed	1500 RPM
Output frequency	50 Hz
Phase	3
Noise dB(A) @7m	70
Rated voltage	400 V
Engine model	6BTAA5.9-G2
Alternator model	UC274E
Fuel consumption of 100% load	29.4 Litres/h
Fuel consumption of 75% load	22.4 Litres/h
Voltage regulation rate	≤±1%
Random voltage variation	≤±1%
Frequency regulation rate	≤±5%
Random frequency variation	≤±0.5%

Prime Power:

This rating is for the supply of continuous electrical power (at variable load). There is no limit on the annual hours of operation and 10% overload power can be supplied for 1 hour in 12.

Standby power:

This rating is for the supply of continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted.

Rated voltage:

Available with customer requirements.

ISO9001:2008
MPMC Generating Sets

CE

Engine Specifications

Engine model	6BTAA5.9-G2
Engine manufacturer	Cummins
Number of cylinders	6
Cylinder arrangement	Vertical in-line
Cycle	Four stroke
Aspiration	Turbocharged and After water-cooler
Bore×Stroke (mm×mm)	102 x 120
Displacement (Liter)	5.9
Compression Ratio	17.5:1
Prime power/speed (KW/RPM)	120/1500
Standby power/speed (KW/RPM)	132/1500
Speed governor	Electrical
Cooling system	Forced Water Cooling Cycle
Steady speed droop (%)	≤1%
Total lubrication system capacity (L)	16.4
Coolant capacity (engine only) （L）	9.1
Fuel consumption at 100% load (g/kWh)	208 (at 1500RPM)
Starter motor	DC24V,
Alternator	AC24V

Alternator Specifications

Alternator model	UC274E
Alternator manufacturer	Stamford
Exciter type	Single bearing, Brushless, Self-excited
Rated output prime power	105 kW
Rated speed	1500 RPM
Rated frequency	50 Hz
Phase	3
Rated voltage	400 V(Available with customer requirements)
Power factor	0.8
Voltage adjust range	≥5%
Voltage regulation NL-FL	≤±1%
Insulation grade	H
Protection grade	IP23

Control System LCD

All MPMC series genset have a control cubicle mounted on a isolated support, which has the following features:

- Electronic digital control module with monitoring/control facility and warning indicators;
- Automatic shutdown protection
- Emergency stop button (lock-down type)

- AC output circuit breaker with over-current protection;
- DC circuit control switch.

The control module gives digital readouts of:

- Generator voltage;
- Output frequency;
- Engine speed;
- Battery voltage;
- Engine hours

run. Note:

1. The engine coolant temperature used temperature meter display;
2. The engine oil pressure used oil pressure meter display;
3. Generator current used current meter display and used change switch for each phase displayed separately

The control module has indicators for failure information:

- Overspeed/underspeed,
- Emergency stop
- Low oil pressure;
- High water temperature
- Failure to start
- Battery charger failure

Automatic shutdown occurs under:

- Low engine oil pressure;
- High engine water temperature;
- Overspeed/underspeed;
- Failure to start after three attempts.