

## Diesel Generating Set

MODEL	HHC(S)50
Prime Power ( 50Hz )	40kW/50kVA
Standby Power ( 50Hz )	44kW/55kVA



### Standard Features



Cummins diesel engine made by DCEC China, Model:4BTA3.9-G . With radiator at ambient temperature 40°C, fans are driven by belt, with safety guard, With DC 24V charge alternator.

Stamford Alternator Model:STAMFORD UCI224D1 , single bearing alternator; IP23 Protection, Insulation class H

Stand type control panel with many kinds of Display and Protection function is equipped

Two 12V starter maintenance free battery

Power output MCCB is equipped.

Accessory: A suit of ripple flex exhaust pipe; exhaust siphon, muffler; and a set of spare parts & Tools & Documents.



The structure is built-up, the built-in residential muffler makes the noise lower.

Exhaust guide plate and air channel for air intake&noise reduction are mounted within soundproof canopies.

Outside Emergency Stop Button.

Inside power Cathode switch.

Outside Fuel Inlet.

Base Fuel tank is equipped, With lifting ear and forklift slots. Outside fuel inlet/return, outside lub oil and coolant drain.

### Generator Ratings

Voltage ( V )	Frequency ( Hz )	Phases	Power Factor ( COS $\phi$ )	Standby Current ( A )	Prime Current ( A )	Standby Power ( kW/kVA )	Prime Power ( kW/kVA )
440/254	50	3	0.8	62.0	56.0	44/55	40/50
400/230	50	3	0.8	68.0	61.0	44/55	40/50
380/220	50	3	0.8	71.0	65.0	44/55	40/50
220/127	50	3	0.8	123.0	112.0	44/55	40/50

Prime Power (PRP): Prime power is available for continuous 12-hours running, in accordance with GB/T2828,ISO8528; A 10% overload capability is available for a period of 1 hour within a 12-hours period of operation.

Standby Power Rating (ESP): The standby power rating is applicable for supplying emergency power. No overload, soundproof gensets only run under rating power.

### Sales Promises

World-famous high-quality engines and alternators are adopted by HUIHE.

All the gensets are tested on load before they leave factory, various kinds of functions are tested . and test reports are provided.

Warranty for all of our gensets and accessories is according to our standard conditions since testing: 12 months or 1,000 running hours accumulatively, subject to the earlier, kindly refer to our service terms.

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

## Engine Data

Manufacturer / Model: DCEC/4BTA3.9-G

Air Intake System: 4-Cycle, Turbocharger, Water-to-Aired aftercooled

Fuel System: Direct injection fuel system

Cylinder Arrangement: 4 in Line

Displacement: 3.9L

Bore×Stroke: 102×120 ( mm )

Compression Ratio: 16.5

Rated RPM: 1500rpm

Max. Standby Power at Rated RPM: 65KW

Governor Type: High-precision Electronic Speed Governor

Steady State Frequency Regulation: ±0.5%

Piston Speed: 6m/s

### Exhaust System

Exhaust Flow: 14.8m3/min

Exhaust Temperature: 497

Max Back Pressure: 10kPa

### Air Intake System

Max Intake Restriction: 6.2kPa

Burning Capacity: 5.1m3/min

Intake Flow: m3/min

### Fuel System

100% Standby Power Load: 12.7L/h

100% Prime Power Load: 11.7L/h

75% Prime Power Load: 10.1L/h

50% Prime Power Load: 5.9L/h

Total Fuel Flow: L/h

### Oil System

Total Oil Capacity: 16.4L

Engine oil tank capacity: 14.3L

Oil Pressure at Rated RPM: 350kpa

### Cooling System

Total Coolant Capacity: 21L

Max. Water Temperature: 100

Coolant Flow: 110L/min

### Electrical System

System Voltage: DC 24 V

Rated Current for Charge Alternator: 40 A



## Alternator Data

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

Manufacturer / Type:	STAMFORD/ UCI224D1
Number of Phase:	3
Connecting Method:	3 Phase and 4 Wires, "Y" type connecting
Number of Bearing:	1
Power Factor:	0.8
Protection Grade:	IP23
Altitude Requirement:	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:	50KVA
Alternator Efficiencies:	88.2%
Air Cooling Flow:	12.96m3/min

## Generating Set Data

Frequency Reduce:	3%
Frequency Regulation, Stead State:	0.5%
Frequency Waving:	
Sudden Frequency Warp (100% Sudden Reduce):	+10%
Sudden Frequency Warp (Sudden Increase):	-7%
Frequency Recovery Time (100% Sudden Reduce) :	3S
Frequency Recovery Time (Sudden Increase):	3S
Voltage Regulation:	≥±5%
Voltage Regulation, Stead State:	≤±1%
Voltage Modulation:	0.30%
Sudden Voltage Warp (100% Sudden Reduce):	+20%
Sudden Voltage Warp (100% Sudden Increase):	≤-15%
Voltage Stable Time (100% Sudden Reduce):	4S
Voltage Stable Time (100% Sudden Increase):	4S
Voltage Unbalance:	1%

## Standard Control Panel



HKY-501 control panel is fit for backpack structure and standing structure, and applied for whole genset assembling. This control panel is a panel which holds an 501K made by British Deep Sea Company as its core control module combined with correlative displaying meters of engine and alternator, it is able to examine genset running parameter and protect the genset, has the virtue of easy operation, fully function & reliable protection. The MCCB can be added to the standing structure panel according to special requirements, in order to satisfy the power output.



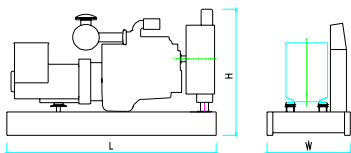
HKY-C10 control panel is fit for backpack structure and standing structure. This control panel is a panel which holds a IL-MRS10 made by EU Comap company as its core intelligent control module. It has plenty friendly operation interface with many functions such as running parameter detecting, static, record, pre-alarm & protection. The MCCB can be added to the standing structure panel according to special requirements for genset, in order to satisfy the power output. Remote control, monitor, communication, mains/generator power inspection & switch control (AMF) function can be selected by users.

## Options

Engine	Alternator	Control and Power Distribution System	Others
55 high temperature radiator Water Separator Water Jacket Heater Oil Heater Oil Discharging Pump	Permanent Magnet Gen-erator (PMG) Anti Condensation Heater Drop CT(For Paralleling)	Auto Control Panel Auto Transfer Switch(ATS) Battery Charge Manual Paralleling System Auto Paralleling System electronic indicator for fuel level	Daily Fuel Tank Base Fuel Tank Trailer Type automatic input system for fuel Maintenance Tools Accesory Bag Wind Scooper for soundproof canopy

## Dimension & Weight

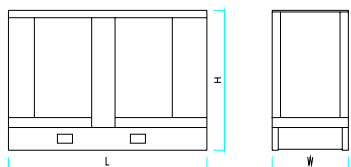
### Open Type



Overall Size L×W×H  
2100mm×750mm×1430mm

Weight  
980Kg

### Soundproof Type



Overall Size L×W×H  
2600mm×1000mm×1550mm

Weight  
1440 Kg