

## Diesel Generating Set

MODEL	HHC (S) 181
Prime Power (50Hz)	145kW/181kVA
Standby Power (50Hz)	160kW/200kVA



### Standard Features



- Cummins diesel engine made by DCEC China, Model:6CTA8.3-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 UCI 274G1, 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	262.4	237.8	160/200	145/181
400/230	50	3	0.8	288.0	261.0	160/200	145/181
380/220	50	3	0.8	302.4	274.1	160/200	145/181
Other	Customizing for Different Specification						

**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/6CTA8.3-G

Air Intake System: 4-Cycle,turbocharger,Water-to-Air aftercooled

Fuel System: Direct Injection Fuel System

Cylinder Arrangement 6 in Line

Displacement: 8.3L

Bore×Stroke: 114×135 (mm)

Compression Ratio: 16.5

Rated RPM: 1500rpm

Max. Standby Power at Rated RPM: 180KW

Governor Type: High-precision Electronic Speed Governer

Steady State Frequency Regulation: ±0.5%

Piston Speed: 6.8m/s

## Exhaust System

Exhaust Flow: 31.1m<sup>3</sup>/min

Exhaust Temperature: 556℃

Max Back Pressure: 10kPa

## Air Intake System

Max Intake Restriction: 6.2kPa

Intake Flow: 11.52m<sup>3</sup>/min

## Fuel System

Fuel Tank Capacity: 480L

100% Standby Power Load: 44.7L/h

100% Prime Power Load: 39.7L/h

75% Prime Power Load: 29.4L/h

50% Prime Power Load: 19.9L/h

## Oil System

Total Oil Capacity: 24L

Engine Oil Tank Capacity: 22.5L

Oil Pressure at Rated RPM: 276~414kpa

## Cooling System

Total Coolant Capacity: 28L

Max. Water Temperature: 100℃

Coolant Flow: 198L/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/ UCI274G1
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:	182KVA
Alternator Efficiencies:	92.7%
Air Cooling Flow:	30.84m <sup>3</sup> /min

## Generating Set Data

Frequency Reduce:	≤3%
Frequency Regulation, Stead State:	≤0.5%
Waveform Distortion(no load):	<1.5%
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%
Soundproof Type Decibel Rating(at 7 m):	70dB

## 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.



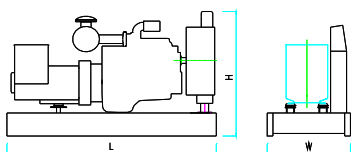
HKY-C10 control panel is fit for backpack structure and standing structure. This control panel is a panel which holds a IL-NT MRS10 made by EU Comap company as its core intelligent control module. It has plenty friendly operation interface with many functions such as running parameter detecting, static, 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
<ul style="list-style-type: none"> <li>● 50°C High Temperature Radiator</li> <li>● Water Separator</li> <li>● Water Jacket Heater</li> <li>● Oil Heater</li> <li>● Oil Discharging Pump</li> </ul>	<ul style="list-style-type: none"> <li>● Permanent Magnet Generator (PMG)</li> <li>● Anti Condensation Heater</li> <li>● Drop CT(For Paralleling)</li> </ul>	<ul style="list-style-type: none"> <li>● Auto Control Panel</li> <li>● Auto Transfer Switch(ATS)</li> <li>● Battery Charge</li> <li>● Manual Paralleling System</li> <li>● Auto Paralleling System</li> <li>● Electronic Indicator For Fuel Level</li> </ul>	<ul style="list-style-type: none"> <li>● Daily Fuel Tank</li> <li>● Base Fuel Tank</li> <li>● Trailer Type</li> <li>● Automatic Input System For Fuel</li> <li>● Maintenance Tools</li> <li>● Accessory Bag</li> <li>● Wind Scooper for Soundproof Canopy</li> </ul>

## Dimension & Weight

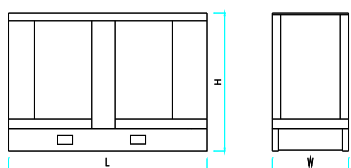
### Open Type



Overall Size L×W×H  
2450mm×1050mm×1600mm

Weight  
1550Kg

### Soundproof Type



Overall Size L×W×H  
3500mm×1130mm×1700mm

Weight  
2470 Kg