

## Diesel Generating Set

MODEL	HHL (S) 25
Prime Power (50Hz)	20kW/25kVA
Standby Power (50Hz)	22kW/28kVA



### Standard Features



- LOVOL diesel engine made in China, Model:1003G. With radiator at ambient temperature 40°C, fans are driven by belt, with safety guard, with DC 12V charge alternator.
- Stamford Alternator Model:STAMFORD P1144F, single bearing alternator; IP23 protection, insulation class H.
- Stand type control panel with many kinds of display and protection function is equipped.
- One 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	Frequency	Phases	Power Factor	Standby Current	Prime Current	Standby Power	Prime Power
(V)	(Hz)		(COS $\phi$ )	(A)	(A)	(kW/kVA)	(kW/kVA)
440/254	50	3	0.8	36.1	32.8	22/28	20/25
415/230	50	3	0.8	38.3	34.8	22/28	20/25
400/240	50	3	0.8	39.7	36.1	22/28	20/25
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 alterntors 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:	PERKINS/1003G
Air Intake System:	4-Cycle, Naturally aspirated
Fuel System:	Indirect injection
Cylinder Arrangement:	3 cylinders Vertical in-line
Displacement:	2.99L
Bore×Stroke:	100×127 (mm)
Compression Ratio:	16.5:1
Rated RPM:	1500rpm
Max. Standby Power at Rated RPM:	30.5
Governor Type:	Mechanical
Steady State Speed Stability at Constant Load G2:	±0.5%
Piston Speed:	m/s
<b>Exhaust System</b>	
Exhaust Flow:	6.8m <sup>3</sup> /min
Exhaust Temperature:	600℃
Max Back Pressure:	5kPa
<b>Air Intake System</b>	
Max Intake Restriction:	2kPa
Combustion Air Flow:	4.52m <sup>3</sup> /min
<b>Fuel System</b>	
100% Standby Power Load:	5.6L/h
100% Prime Power Load:	5.1L/h
75% Prime Power Load:	3.8L/h
50% Prime Power Load:	2.6L/h
<b>Oil System</b>	
Max. Sump Capacity:	8.1L
Normal Oil Temperature:	105-125 ℃
Oil Pressure at Rated RPM:	310-390kpa
<b>Cooling System</b>	
Total Coolant Capacity:	22.217
Maximum Top Tank Temperature:	100℃
Thermostat Operation Range:	82 - 88℃
<b>Electrical System</b>	
System Voltage:	DC 12 V
Rated Current for Charge Alternator:	15/40 A



## Alternator Data

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

Manufacturer / Type:	STAMFORD/ PI144F
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:	27.5KVA
Alternator Efficiencies:	86.3%
Air Cooling Flow:	6m <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%

## 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.



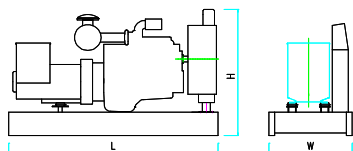
HKY-C10 control panel is fit for backpack structure and standing structure. This control panel is a panel which holds a IL-NT MRS10 made by EU Comap company as its core intelligent control module. It has plenty friendly operation interface with many functions such as running parameter detecting, static, 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>● 55°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>● Accesory Bag</li> <li>● Wind Scooper for Soundproof Canopy</li> </ul>

## Dimension & Weight

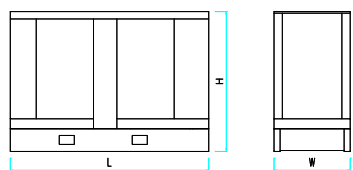
### Open Type



Overall Size LxWxH  
1920mmx750mmx1430mm

Weight  
830kg

### Soundproof Type



Overall Size LxWxH  
2300mmx1000mmx1550mm

Weight  
1400kg