Rt Raytheon Power 雷天动力设备(苏州)有限公司 RAYTHEON POWER MACHINERY (SUZHOU) CO., LTD

Diesel Generator Set RCS565



Photos reference only

Genset Technical Data

Prime power	563kVA/450kW
Standby power	625kVA/500kW
Rated speed	1500 RPM
Output frequency	50 Hz
Phase	3
Rated voltage	400 V
Engine model(Cummins)	KTAA19-G5
Alternator model(Stamford)	HCI 544E
Fuel consumption of 100% load	137 L/h
Fuel consumption of 75% load	103 L/h
Voltage regulation rate	≤±1%

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

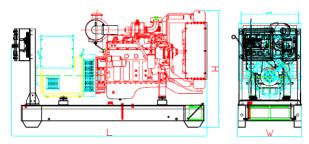
Subject to customer requirement

Advantages

- ✓ High quality, reliable and complete power unit
- ✓ Compact design
- ✓ Easy start and maintenance possibility
- ✓ Every generating set is subject to a comprehensive test program which includes 50%, 75%, 100%, 110% load testing, checking and provision of all control and safety shut down functions testing
- ✓ The 24V high performance maintenance-free lead-acid starting battery including Rack and Cables
- ✓ Industrial capacity exhaust silencer and flexible exhaust hose
- ✓ With Chint Moulded Case Circuit Breaker (Up to1250A)
- ✓ Packing: be secured with polythene dust cover

Dimension and Weight

Length (L)	mm	3580
Width (W)	mm	1555
Height (H)	mm	2140
Weight	kg	4610
Tank capacity	L	610



Chassis

- ✓ The complete gen-set is mounted as whole on a heavy-duty fabricated, steel base frame
- ✓ Anti-vibration pads are fixed between the engine/ alternator feet and the base frame
- ✓ Base frame design incorporates an 8-houres integral fuel tank
- ✓ The generator set can be lifted or carefully pushed / pulled by the base frame
- ✓ Dial type fuel gauge and drain plug on the fuel tank

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Engine

Engine manufacturer		Cummins	
Engine model		KTAA19-G5	
Emissions statement			
Number of cylinders		6	
Cylinder arrangement		Vertical in-line	
Cycle		Four stroke	
Aspiration		Turbocharged and Air to Air Aftercooled	
Bore×Stroke	mm×mm	159 x 159	
Displacement	Liter	18.9	
Compression Ratio		13.5:1	
Prime power/speed	kW/RPM	502/1500	
Standby power/speed	kW/RPM	550/1500	
Speed governor		Electrical	
Cooling system		Forced Water Cooling Cycle	
Steady speed droop	%	≤1%	
Total lubrication system capacity	L	50	
Coolant capacity (engine only)	L	30.3	
Fuel consumption at 100% load	g/kWh		
Starter motor & Alternator		DC24V	

Alternator

Design	Brushless, single bearing, flexible disc	
Protection grade	IP23	
Alternator cooling	Direct drive centrifugal blower fan	
Insulation grade	Class H	
Standard temperature rise	125°C	
Exciter type	Self-excited & AVR(Automatic Voltage Regulator)	
Power factor	0.8	
Rated voltage	380-415V(Subject to customer requirement)	
Voltage regulation rate	$\leq \pm 1\%$	

Alternator brand option

Alternator Brand	Alternator Model	Phase	Rated Speed	Rated Prime Power(kVA)
Stamford	HCI 544E	3	1500RPM	610
Leroy Somer	LSA 47.2 L9	3	1500RPM	600
FARADAY	FD5LS	3	1500RPM	610
Raytheon Power	WHI5E	3	1500RPM	610

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Control System

Control supervision and protection panel is mounted on the genset base frame. The control panel is equipped as follows:

1. Manual & Auto Start Control Panel

Panel equipment:

- ✓ The deepsea (UK original) control module
- ✓ Static battery charger
- ✓ Emergency stop push button

a) Generator set control module DSE4620 features:

- ✓ The module be utilised as a Manual or Auto Start Module for single gen-set applications
- ✓ Back-lit LCD display
- ✓ Remote start input
- ✓ Hours counter provides accurate information for monitoring maintenance and warranty periods
- ✓ Full engine monitoring and protection
- ✓ The module can be programmed using the front panel or by using the DSE Configuration Suite PC software
- ✓ 4 customizable Digital Inputs
- ✓ 4 customizable Outputs
- ✓ Easy push button control STOP/RESET -MANUAL –AUTO START

b) Parameters via LED display:

- ✓ Generator Volts (L-N)
- ✓ Generator Frequency (Hz)
- ✓ Engine speed
- ✓ Engine run time
- ✓ Battery volts

REE Deep See Electronics

DSE4620

c) Parameters display via the pointer instruments:

- ✓ Generator Ampere (L1,L2,L3)
- ✓ Engine oil pressure
- ✓ Engine water temperature

d) Alarms & Auto shutdown protect:

- ✓ Over and Under Speed
- $\checkmark\,$ Low and High Battery Volt
- ✓ Engine start failure
- ✓ Charge fail
- ✓ Over Current
- ✓ Under / Over Generator Voltage
- ✓ Low Oil Pressure
- ✓ Emergency stop
- ✓ High engine temperature
- 2. Power Outlet Terminal Board Mounted on the Gen-set Base Frame

The control modules option:

Smartgen		
HGM6120	DSE7320	DSE8610

Remarks: For the specific and detailed features of the above types, please refer to "Control System Selection" file.

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Generator Set Options and Accessories

Generator set

- □ Silent generator set
- □ ABB MCCB circuit breaker

Fuel system

- \Box Dual wall base fuel tank
- \Box Outside fuel tank

Exhaust system

 \Box Residential exhaust silencer

Alternator

- \Box PMG excitation
- \Box Space heater

Low environment temperature

- \Box Water heater
- \Box Oil heater
- □ Battery heater

Control system

- \Box AMF function
- □ ATS control cabinet
- □ Multiple generator automatic paralleling

Contact Us

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