

Diesel Generator Set RCS400



Photos reference only

Genset Technical Data

Prime power	400kVA/320kW
Standby power	450kVA/360kW
Rated speed	1500 RPM
Output frequency	50 Hz
Phase	3
Rated voltage	400 V
Engine model(Cummins)	NTAA855-G7A
Alternator model(Stamford)	HCI 444F
Fuel consumption of 100% load	108 L/h
Fuel consumption of 75% load	81 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

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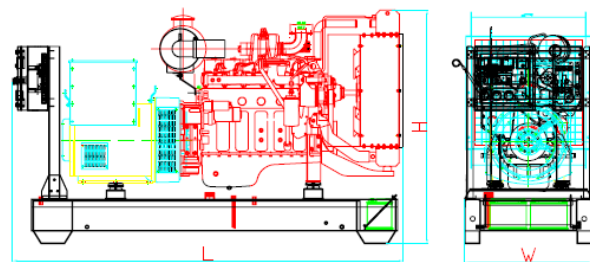
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Advantages

- ✓ 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 to 1250A)
- ✓ Packing: be secured with polythene dust cover

Dimension and Weight

Length (L)	mm	3050
Width (W)	mm	1110
Height (H)	mm	1920
Weight	kg	2750
Tank capacity	L	420



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-hours 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

Engine

Engine manufacturer		Cummins
Engine model		NTAA855-G7A
Emissions statement		---
Number of cylinders		6
Cylinder arrangement		Vertical in-line
Cycle		Four stroke
Aspiration		Turbocharged & Air-Air Cooled
Bore×Stroke	mm×mm	140 x 152
Displacement	Liter	14
Compression Ratio		14.0:1
Prime power/speed	kW/RPM	310/1500
Standby power/speed	kW/RPM	343/1500
Speed governor		Electrical
Cooling system		Forced Water Cooling Cycle
Steady speed droop	%	≤1%
Total lubrication system capacity		L
Coolant capacity (engine only)		L
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	≤ ± 1%

Alternator brand option

Alternator Brand	Alternator Model	Phase	Rated Speed	Rated Prime Power(kVA)
Stamford	HCI 444F	3	1500RPM	400
Leroy Somer	LSA 47.2 S4	3	1500RPM	410
FARADAY	FD5S	3	1500RPM	400
Raytheon Power	WHI5C	3	1500RPM	400

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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



DSE4620

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

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
- ✓ 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 :



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
- Trailer generator set
- ABB MCCB circuit breaker

Fuel system

- 12 hour base tank(single wall)
- 24 hour base tank(single wall)
- Dual wall base fuel tank
- Outside fuel tank

Exhaust system

- Residential exhaust silencer

Alternator

- PMG excitation
- Space heater

Low environment temperature

- Water heater
- Oil heater
- Battery heater

Control system

- AMF function
- ATS control cabinet
- Multiple generator automatic paralleling

Contact Us

RAYTHEON POWER MACHINERY (SUZHOU) CO., LTD

ADDRESS: No.599, Laixiu Road, Fenhu Economic Zone, Suzhou City,
Jiangsu Province, China

Tel: +86 21 52686721 Fax: +86 21 62772219

Email: info@raytheonpower.com

Web site: www.raytheonpower.com

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