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

Diesel Generator Set RCS350



Photos reference only

Genset Technical Data

Prime power	350kVA/280kW
Standby power	385kVA/308kW
Rated speed	1500 RPM
Output frequency	50 Hz
Phase	3
Rated voltage	400 V
Engine model(Cummins)	NTA855-G2A
Alternator model(Stamford)	HCI 444E
Fuel consumption of 100% load	80 L/h
Fuel consumption of 75% load	60 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

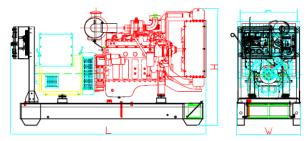
Subject to customer requirement

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	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-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		NTA855-G2A	
Emissions statement	Emissions statement		
Number of cylinders		6	
Cylinder arrangement		Vertical in-line	
Cycle		Four stroke	
Aspiration		Turbocharged, Aftercooled	
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	38.6	
Coolant capacity (engine only)	L	20.8	
Fuel consumption at 100% load	g/kWh	192.6 (at 1500RPM)	
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 444E	3	1500RPM	350
Leroy Somer	LSA 47.2 VS1	3	1500RPM	350
FARADAY	FD4LS	3	1500RPM	350
Raytheon Power	WHI4FS	3	1500RPM	350

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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
- \checkmark 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

- \Box Silent generator set
- □ Trailer generator set
- □ ABB MCCB circuit breaker

Fuel system

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

Exhaust system

□ Residential exhaust silencer

Alternator

- \Box PMG excitation
- \Box Space heater

Low environment temperature

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

Control system

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

Contact Us

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