

# IG303C

INDUSTRIAL RANGE  
POWER BY CUMMINS

# IGNT



## POWER DEFINITION

PRP: Prime Power is required for continuous operation under variable load and infinite operating hours per year.

ESP: Standby power refers to the ability of the generator to operate at varying loads in the event of power outage, with an annual operating time of up to 200h.

## STANDARD USAGE CONDITIONS:

1. Altitude: below 1000 meters;
2. Environmental temperature: 25 °C
3. Relative humidity: 30%

## ABOUT NOISE:

The noise level of the generator largely depends on the installation conditions and usage environment, so it is not possible to specify the noise value in manual. The noise value we provide is based on laboratory testing and is for reference.

## QUALIFICATION STANDARD

IGNT POWER generator set complies with ISO and CE standards, which also include the following certification standards:

- ISO 1400:2015 Environmental System;
- ISO 45001:2018 Safety System;
- ISO 9001:2015 Quality System

SERVICE		PRP	ESP
Power	KVA	275	303
Power	KW	220	242
Standard Voltage	V	400/230	
Available Voltage	v	380/220	415/240
Rated Current	A	397	
Frequency/Speed	HZ/RPM	50/1500	

## Weight and Dimension

Dimension			Open	Silent
Length	(L)	mm	3150	3960
Width	(W)	mm	1100	1280
Height	(H)	mm	1950	2150
Net Weight	KG			
Fuel Tank	L		648	

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## Engine Specifications

General Engine Data -- CUMMINS CCEC		
Engine Model	NTA855-G1A	
Governer	E	
Cycle	4 stroke	
No. of Cylinders	6	
Displacement (L)	14	
Bore* Stroke (mm)	140*152	
Compression Ratio	14.5	
Rated Net Power(KW)	220	
Fuel injection pump model	Direct Injection	Cummins PT

Air intake system		
Dirty element	kPa	6.22
Clean element	kPa	3.74
Air Filter	/	

Lubrication System		
Min. capacity	L	38.6
Idle speed(Min)	kPa	103
Governed speed	kPa	241-345

## Alternator Specifications

Alternator Date-- IGNT		
Alternator Model	IA444DS	
Phase	3	
Voltage (V)	400	
Prime Power (KW)	220	
Pole	4	
Excitation System	lf-excited, Brushless	
No. of Bearing	1	
Power Factor	0.8	
Wiring Connection	3 Phases, 4 Wires	
Insulation Grade	H/H	
Protection Grade	IP23	
Voltage Regulation (%)	±0.5	

Fuel System		
Fuel Consumption @100% ESP	L/h	68.3
Fuel Consumption @100% PRP	L/h	61.3
Fuel Consumption @75% PRP	L/h	46.1
Fuel Consumption @50% PRP	L/h	31.4
Maximum fuel inlet temperature	℃	71
Total drain flow	/	

Starter System		
Start Motor Voltage	V	24
No. of Batteries	2	

Cooling System		
Coolant capacity-engine only	L	20.8
Standard Thermostat(Modulating)	℃	82-94
Max coolant friction head external to e	kPa	41
Min. Pressure Cap	kPa	103

Exhaust system		
Exhaust gas temperature	℃	498
Exhaust gas flow	L/s	936
Radiated heat to ambient	kW	182

Alternator Date-- Stamford		
Alternator Model	S4L1D-D41/S4L1S-D4	
Phase	3	
Voltage	V	400
Prime Power	KW	220
Pole	4	
Excitation System	elf-excited, Brushless	
No. of Bearing	3	
Power Factor	0.8	
Wiring Connection	3 Phases, 4 Wires	
Insulation Grade	H/H	
Protection Grade	IP23	
Voltage Regulation	%	±0.5

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## Controller Specifications

Control Panel Date-- Deepsea DSE6120

- |  |  |
|--|--|
| ● Built in PLC logic programming                     | ● Generator/load current monitoring and protection |
| ● Generator voltage detection                        | ● Fuel pump control function                       |
| ● Mains voltage detection                            | ● Can connect to all expansion modules             |
| ● Generator/load power detection (kW, kVA, kVAr, pf) | ● Capable of graded loading                        |
| ● Generator overload protection (kW)                 | ● Engine speed protection                          |
| ● Equipped with manual closing and opening functions | ● Engine preheating                                |
| ● Start gen-set when the battery voltage is low      | ● Engine starts rapidly&stops rapidly              |
| ● LCD and LED alarm indication                       | ● Custom remote start signal                       |

## Generator Specifications

Standard Configuration

- 50°C radiator for belt driven fan
- 12/24V charging alternator
- One set of air/fuel/oil filters
- Chassis with integrated fuel tank
- Emergency stop button
- Anti-vibration shock absorbers
- Main circuit breaker/ MCCB
- Auto control system
- User manual

Optional Configuration

- Battery charger
- Engine pre-heater
- Alternator pre-heater
- PMG/ AREP/ MAUX
- Water-oil separator
- Inside automatic transfer switch/ ATS box
- Grounding copper rod
- Remote control system
- Switch box

## Warranty of Generator Set

Cummins Engine

One year or 1000 running hours whichever comes first

Generator

One year or 1000 running hours whichever comes first

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