

# IG138C

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

## 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	125	138
Power	KW	100	110
standard voltage	V	400/230	
available voltage	v	380/220 415/240	
Rated Current	A	180	
frequency/speed	hz/rpm	50/1500	

## Weight and Dimension

Dimension		Open	Silent
Length ( L)	mm	2400	3290
Width ( W)	mm	950	1130
Height ( H)	mm	1510	1850
Net Weight	KG	1375	1975
Fuel Tank	L	340	

**Engine Specifications**

General Engine Data-- Cummins		
Engine Model	6BTAA5.9-G2	
Aspiration	Turbocharged and Charge	
Fuel Injection	Direct	
No. of Cylinders	6	
Displacement	L	5.9
Bore* Stroke	mm	102*120
Compression Ratio	17.3	
Rated Net Power	KW	100
Governor Type	E	
Cooling Way	Water-cooled	

Air intake system		
Maximum intake air restriction		
Intake air flow	L/s	120
Cooling air flow	L/s	4.548

Lubrication System		
Engine Oil Capacity	L	16.4
Oil Consumption	%	0.5-1
Oil Pressure	kPa	/

**Alternator Specifications**

Alternator Data-- IGNT		
Alternator Model	IA274D	
Phase	3	
Voltage	V	400
Prime Power	KVA	125
Pole	4	
Excitation System	Self-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	34
Fuel Consumption @100% PRP	L/h	30
Fuel Consumption @75% PRP	L/h	23
Fuel Consumption @50% PRP	L/h	16
Fuel Tank Capacity (Open)	L	270
Fuel Tank Capacity (Silent)	L	280

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

Cooling System		
Total Coolant Capacity	L	26.4
Engine oil capacity	L	16.4
Air Filte	Type	Dry
Min. Pressure Cap	kPa	/

Exhaust System		
Max. Exhaust Temp.	°C	540
Exhaust Gas Flow	L/s	328
Max. Back Pressure	kPa	10

Alternator Data-- Stamford		
Alternator Model	UCI274D	
Phase	3	
Voltage	V	400
Prime Power	KVA	125
Pole	3	
Excitation System	Self-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

## Controller Specifications

Control Panel Date-- Deepsea DSE6120

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|--|--|
| ● 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, p | ● Capable of graded loading                        |
| ● Generator overload protection (kW)               | ● Engine speed protection                          |
| ● Equipped with manual closing and opening functio | ● 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

