

# IG94C

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	85	94
Power	KW	68	75
standard voltage	V	400/230	
available voltage	V	380/220	415/240
Rated Current	A	123	
frequency/speed	hz/rpm	50/1500	

## Weight and Dimension

Dimension		Open	Silent
Length ( L)	mm	2200	2940
Width ( W)	mm	880	1080
Height ( H)	mm	1360	1690
Net Weight	KG	1005	1375
Fuel Tank	L	112	

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## Engine Specifications

### General Engine Data-- Cummins

Engine Model	6BT5.9-G1
Piston Speed	m/s 6
Fuel Injection	BYC A
No. of Cylinders	6
Displacement	L 5.9
Bore* Stroke	mm 102*120
Compression Ratio	17.3
Rated Net Power	KW 68
Governor Type	M
Engine Weight	kg 432

### Air intake system

Maximum intake air restriction with heavy duty air cleaner:	
Air Intake Flow	L/s 100

### Lubrication System

Engine Oil Capacity	L 16.4
Low idle	kPa 207
Rated speed	kPa 345

## Alternator Specifications

### Alternator Data-- IGNT

Alternator Model	IA224G
Phase	3
Voltage	V 400
Prime Power	KVA 85
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	% $\pm 0.5$

### Fuel System

Fuel Consumption @110% ESP	L/h 23.4
Fuel Consumption @100% PRP	L/h 21.7
Fuel Consumption @75% PRP	L/h 16.3
Fuel Consumption @50% PRP	L/h 11.5
Total Drain Flow	L/h 30
Fuel Tank Capacity (Silent)	L /

### Starter System

Start Motor Voltage	V 24
No. of Batteries	2

### Cooling System

Engine Coolant Capacity	L 7.9
Thermostat Operating Range	$^{\circ}\text{C}$ 82-95
Max. coolant cycling	kPa 28
Min. Pressure Cap	kPa 69

### Exhaust System

Max. Exhaust Temp.	$^{\circ}\text{C}$ /
Exhaust Gas Flow	L/s 252
Max. Back Pressure	kPa 10

### Alternator Data-- Stamford

Alternator Model	UCI224G
Phase	3
Voltage	V 400
Prime Power	KVA 85
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	% $\pm 0.5$

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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, kVA, 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

