

# IG902C/I

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	820	902
Power	KW	656	722
Standard Voltage	V	400/230	
Available Voltage	v	380/220	415/240
Rated Current	A	1184	
Frequency/Speed	HZ/RPM	50/1500	

## Weight and Dimension

	Dimension		Open	Silent
Length	(L)	mm	/	5812
Width	(W)	mm	/	2040
Height	(H)	mm	/	2500
Net Weight		KG	6554	9894
Fuel Tank		L		

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## Engine Specifications

General Engine Data -- CUMMINS		
Engine Model	QSK23-G3	
Aspiration	Turbocharged and Charge Air Cooled	
engine weight	kg	Direct
No. of Cylinders	6	
Displacement	L	23.15
Bore* Stroke	mm	170*170
Compression Ratio	16	
Rated Net Power	KW	656
Governor Type	E	E
Cooling Way	Water-cooled	

Air intake system		
Maximum intake air restriction with heavy duty air cleaner:		
Dir ty element	25kpa	

Lubrication System		
Engine Oil Capacity	L	103
Oil Consumption	°C	0.5-1
Oil Pressure	kPa	/

## Alternator Specifications

Alternator Date-- IGNT		
Alternator Model	IA634C	
Phase	3	
Voltage (V)	400	
Prime Power (KW)	656	
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 @110% ESP	L/h	178
Fuel Consumption @100% PRP	L/h	161
Fuel Consumption @75% PRP	L/h	121
Fuel Consumption @50% PRP	L/h	85
Fuel Tank Capacity (Open)	L	TBD
Fuel Tank Capacity (Silent)	L	1000

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

Cooling System		
Engine Coolant Capacity	L	113
Thermostat Operating Range	°C	76.5-90°C
Max. Water Temp.	°C	105
Min. Pressure Cap	kPa	/

Exhaust system		
Max. Exhaust Temp.	°C	543
Exhaust Gas Flow	L/s	2463
Maximum allowed back pressure	kPa	10

Alternator Date-- Stamford		
Alternator Model	S6L1D-C4	
Phase	3	
Voltage V	400	
Prime Power KW	656	
Pole	4	
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

- |  |  |
|--|--|
| ● 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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