

# IG2200C/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	2000	2200
Power	KW	1600	1760
Standard Voltage	V	400/230	
Available Voltage	v	380/220	415/240
Rated Current	A	2887	
Frequency/Speed	HZ/RPM	50/1500	

## Weight and Dimension

	Dimension		Open	Silent
Length	(L)	mm	/	12192
Width	(W)	mm	/	2438
Height	(H)	mm	/	2896
Net Weight		KG	10973	18973
Fuel Tank		L		

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## Engine Specifications

### General Engine Data -- CUMMINS

Engine Model	QSK60-G4	
Aspiration	/	
Induction system	Turbocharged	
No. of Cylinders	16	
Displacement	L	60.2
Bore* Stroke	mm	159*190
Compression Ratio	14.5:1	
Rated Net Power	KW	1600
Governor Type	E	
Cooling Way	Water-cooled	

### Air intake system

Maximum intake air restriction with heavy duty air cleaner:		
Dir ty element	6	2kpa

### Lubrication System

Idle speed (Min)	kPa	138
Governed speed (Max)	kPa	345-483
Maximum oil temp	°C	121

## Alternator Specifications

### Alternator Date-- IGNT

Alternator Model	IA734F	
Phase	3	
Voltage (V)	400	
Prime Power (KW)	1600	
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	437
Fuel Consumption @100% PRP	L/h	394
Fuel Consumption @75% PRP	L/h	291
Fuel Consumption @50% PRP	L/h	200
Fuel Tank Capacity (Open)	L	/
Fuel Tank Capacity (Silent)	L	/

### Starter System

Start Motor Voltage	V	24
No. of Batteries	2	

### Cooling System

Max. Exhaust Temp.	°C	157
Exhaust Gas Flow	L/s	82-93°C
Max. Back Pressure	kPa	104

### Exhaust system

Max. exhaust temperature	°C	430
Exhaust gas flow	L/m	5190
Max. allowed back pressure	kPa	/

### Alternator Date-- Stamford

Alternator Model	/	
Phase	3	
Voltage (V)	400	
Prime Power (KW)	1600	
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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