

# IG825C/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	750	825
Power	KW	600	660
Standard Voltage	V	400/230	
Available Voltage	v	380/220	415/240
Rated Current	A	1083	
Frequency/Speed	HZ/RPM	50/1500	

## Weight and Dimension

	Dimension		Open	Silent
Length	(L)	mm	4148	5812
Width	(W)	mm	1727	2090
Height	(H)	mm	2124	2520
Net Weight		KG	6488	9828
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	600
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	IA634B	
Phase	3	
Voltage (V)	400	
Prime Power (KW)	600	
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	S5L1D-H4	
Phase	3	
Voltage V	400	
Prime Power KW	600	
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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