

# IG3025C/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	2750	3025
Power	KW	2200	2420
Standard Voltage	V	400/230	
Available Voltage	v	380/220	415/240
Rated Current	A	3969	
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			
Fuel Tank	L			

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## Engine Specifications

General Engine Data -- CUMMINS		
Engine Model	QSK78-G9	
Governor	E	
Cycle	4 stroke	
No. of Cylinders	18	
Displacement (L)	77.6	
Bore* Stroke (mm)	170*190	
Compression Ratio	15.5	
Rated Net Power(KW)	2200	
Injection	Direct	

Air intake system		
Intake air flow	L/s	3219
Cooling air flow	L/s	/
Air Filter	Type	dry

Lubrication System		
Lube oil consumption	%	0.5-1
Low idle	kPa	/
Rated speed	kPa	/

## Alternator Specifications

Alternator Date-- IGNT		
Alternator Model	TCU528B	
Phase	3	
Voltage (V)	400	
Prime Power (KW)	2200	
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	569
Fuel Consumption @100% PRP	L/h	528
Fuel Consumption @75% PRP	L/h	406
Fuel Consumption @50% PRP	L/h	291
Fuel Tank Capacity (Open)	L	/
Fuel Tank Capacity (Silent)	L	2000

Starter System		
Start Motor Voltage	V	24
No. of Batteries	4	

Cooling System		
Coolant capacity-engine only	L	677
Cooling system	Water-cooled	
Engine oil capacity	L	465
Min. Pressure Cap	kPa	/

Exhaust system		
Max.exhaust temperature	℃	427
Exhaust gas flow	L/s	7208
Max.allowed back pressure	kPa	10

Alternator Date-- Stamford		
Alternator Model	/	
Phase	3	
Voltage V	400	
Prime Power KW	2200	
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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