

IG105C

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	95	105
Power	KW	76	84
standard voltage	V	400/230	
available voltage	V	380/220	415/240
Rated Current	A	137	
frequency/speed	hz/rpm	50/1500	

Weight and Dimension

Dimension		Open	Silent
Length (L)	mm	1900	2540
Width (W)	mm	800	1000
Height (H)	mm	1300	1500
Net Weight	KG	1030	1420
Fuel Tank	L	165	

Engine Specifications

General Engine Data-- Cummins		
Engine Model	4BTA3,9-G13	
Aspiration	charge inter-cooling	
Fuel System	WeiFu WB pump	
No. of Cylinders	4	
Displacement	L	3.9
Bore* Stroke	mm	102*120
Compression Ratio	18	
Rated Net Power	KW	76
Governor Type	E	
Rated speed	r/min	1500

Air intake system

Maximum intake air restriction		
with heavy duty air cleaner:		
Air flow	m ³ /min	95

Lubrication System

Engine Oil Capacity	L	10.9
Oil Consumption	g/kWh	0.5
Oil Pressure	kPa	110

Alternator Specifications

Alternator Data-- IGNT		
Alternator Model	IA274C	
Phase	3	
Voltage	V	400
Prime Power	KVA	95
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	/
Fuel Consumption @100% PRP	L/h	18.8
Fuel Consumption @75% PRP	L/h	14.1
Fuel Consumption @50% PRP	L/h	10.1
Fuel Tank Capacity (Open)	L	120
Fuel Tank Capacity (Silent)	L	/

Starter System

Start Motor Voltage	V	24
No. of Batteries	2	

Cooling System

Engine Coolant Capacity	L	7.2
Thermostat Operating Range	°C	83-95
Max. Water Temp.	°C	110
Min. Pressure Cap	kPa	/

Exhaust System

Max. Exhaust Temp.	°C	404
Exhaust Gas Flow	m ³ /min	167
Max. Back Pressure	kPa	10

Alternator Data-- Stamford

Alternator Model	UCI274C	
Phase	3	
Voltage	V	400
Prime Power	KVA	95
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	%	±0.5

Controller Specifications

Control Panel Date-- Deepsea DSE6120

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|--|--|
| ● 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, 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

