

IG110C

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	100	110
Power	KW	80	88
standard voltage	V	400/230	
available voltage	V	380/220 415/240	
Rated Current	A	144	
frequency/speed	hz/rpm	50/1500	

Weight and Dimension

Dimension		Open	Silent
Length (L)	mm	1900	2690
Width (W)	mm	800	1080
Height (H)	mm	1300	1450
Net Weight	KG	1030	1420
Fuel Tank	L	165	

Engine Specifications

General Engine Data-- Cummins		
Engine Model	4BTAA3, 9-G3	
Aspiration	Turbocharged, Charge Air C	
Fuel	High Speed Diesel	
No. of Cylinders	4	
Displacement	L	3.9
Bore* Stroke	mm	102*120
Compression Ratio	18	
Rated Net Power	KW	80
Governor Type	M	
Cooling Way	Liquid Cooled	

Air intake system

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

Lubrication System

Engine Oil Capacity	L	/
Total lubrication capacity	16L	
Lube oil consumption	L/h	0.03

Alternator Specifications

Alternator Data-- IGNT		
Alternator Model	IA274C	
Phase	3	
Voltage	V	400
Prime Power	KVA	100
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	18.34
Fuel Consumption @75% PRP	L/h	13.64
Fuel Consumption @50% PRP	L/h	/
Fuel Tank Capacity (Open)	L	/
Fuel Tank Capacity (Silent)	L	/

Starter System

Start Motor Voltage	V	24
No. of Batteries	2	

Cooling System

Engine Coolant Capacity	L	19
Combustion air intake @100% load	212	
Max. Water Temp.	°C	/
Min. Pressure Cap	kPa	/

Exhaust System

Max. Exhaust Temp.	°C	500
Exhaust pipe size (inch)	3.5	
Total wet weight	kg	450

Alternator Data-- Stamford

Alternator Model	UCI274C	
Phase	3	
Voltage	V	400
Prime Power	KVA	100
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

- | | |
|--|--|
| ● 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

