

IG990C

INDUSTRIAL RANGE
POWER BY CUMMINS

IGNT

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	900	990
Power	KW	720	792
Standard Voltage	V	400/230	
Available Voltage	v	380/220	415/240
Rated Current	A	1299	
Frequency/Speed	HZ/RPM	50/1500	

Weight and Dimension

Dimension			Open	Silent
Length	(L)	mm	4400	6096
Width	(W)	mm	1760	2438
Height	(H)	mm	2250	2592
Net Weight	KG			
Fuel Tank	L			

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Engine Specifications

General Engine Data -- CUMMINS CCEC		
Engine Model	KTA38-G2A	
Governer	E	
Cycle	4 stroke	
No. of Cylinders	12	
Displacement (L)	37.8	
Bore* Stroke (mm)	159*159	
Compression Ratio	14.5	
Rated Net Power(KW)	720	
Aspiration	Turbocharged & aftercooled	

Air intake system		
Clean filter	kPa	15
Dirty filter	kPa	25
Intake air flow	L/s	1001

Lubrication System		
Max. oil temperature	°C	121
Low idle	kPa	138
Rated speed	kPa	310-448

Alternator Specifications

Alternator Date-- IGNT		
Alternator Model	IA634D	
Phase	3	
Voltage (V)	400	
Prime Power (KW)	720	
Pole	4	
Excitation System	lf-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	215
Fuel Consumption @100% PRP	L/h	191
Fuel Consumption @75% PRP	L/h	147
Fuel Consumption @50% PRP	L/h	98
Fuel Tank Capacity (Open)	L	/
Fuel Tank Capacity (Silent)	L	/

Starter System		
Start Motor Voltage	V	24
No. of Batteries	2	

Cooling System		
Coolant capacity-engine	L	123.8
Thermostat adjusting temperature	°C	82-93
Max.coolant cycling resistance exterior engine	34.5kPa	
Min. Pressure Cap	kPa	69

Exhaust system		
Engine Coolant flow	l/m	19.6
Exhaust gas flow	L/s	2759
Max.back pressure	kPa	10

Alternator Date-- Stamford		
Alternator Model	S6L1D-D4	
Phase	3	
Voltage V	400	
Prime Power KW	720	
Pole	4	
Excitation System	elf-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	

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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

Email: ignt@igntpower.com

Web: www.igntpower.com