

IG688C

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	625	688
Power	KW	500	550
Standard Voltage	V	400/230	
Available Voltage	v	380/220	415/240
Rated Current	A	902	
Frequency/Speed	HZ/RPM	50/1500	

Weight and Dimension

	Dimension	Open	Silent
Length	(L) mm	3500	4890
Width	(W) mm	1525	1800
Height	(H) mm	2220	2500
Net Weight	KG		
Fuel Tank	L	1264	

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Engine Specifications

General Engine Data -- CUMMINS CCEC	
Engine Model	KTAA19-G7
Governer	E
Cycle	4 stroke
No. of Cylinders	6
Displacement (L)	19
Bore* Stroke (mm)	159*159
Compression Ratio	13
Rated Net Power(KW)	500
Aspiration	Turbocharged, air to air aftercooled

Air intake system		
Clean filter	kPa	3.73
Dirty filter	kPa	6.23
Intake Air temp	°C	82

Lubrication System		
Max. oil temperature	°C	121
Idle speed	kPa	138
Rated speed	kPa	345-483

Alternator Specifications

Alternator Date-- IGNT	
Alternator Model	IA544FS
Phase	3
Voltage (V)	400
Prime Power (KW)	500
Pole	4
Excitation System	If-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	149
Fuel Consumption @100% PRP	L/h	/
Fuel Consumption @75% PRP	L/h	/
Fuel Consumption @50% PRP	L/h	/
Fuel Tank Capacity (Open)	L	1050
Fuel Tank Capacity (Silent)	L	1050

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

Cooling System		
Coolant capacity-engine only	L	30
Thermostat adjusting temperature	°C	82-93
Max.coolant temperature	°C	96.1
With heat exchanger	L	199

Exhaust system		
Max.exhaust temperature	°C	/
Standard exhaust pipe diameter	mm	127
Max.back pressure	kPa	10

Alternator Date-- Stamford		
Alternator Model	S5L1D-F4/S5L1S-F4	
Phase	3	
Voltage	V	400
Prime Power	KW	500
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

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, 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

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