

IG385C

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	350	385
Power	KW	280	308
Standard Voltage	V	400/230	
Available Voltage	v	380/220	415/240
Rated Current	A	505	
Frequency/Speed	HZ/RPM	50/1500	

Weight and Dimension

Dimension			Open	Silent
Length	(L)	mm	3150	3960
Width	(W)	mm	1100	1280
Height	(H)	mm	1950	2150
Net Weight	KG			
Fuel Tank	L		2970	648

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Engine Specifications

General Engine Data -- CUMMINS CCEC		
Engine Model	NTA855-G2A	
Governer	E	
Cycle	4 stroke	
No. of Cylinders	6	
Displacement (L)	14	
Bore* Stroke (mm)	140*152	
Compression Ratio	14	
Rated Net Power(KW)	280	
Induction system	Turbocharged&Aftercooled	

Air intake system		
Dirty element	kPa	6.22
Clean element	kPa	3.74
Air Filter	/	

Lubrication System		
Min. capacity	L	38.6
Idle speed(Min)	kPa	103
Governed speed	kPa	241-345

Alternator Specifications

Alternator Date-- IGNT		
Alternator Model	IA444E	
Phase	3	
Voltage (V)	400	
Prime Power (KW)	280	
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	879.5
Fuel Consumption @100% PRP	L/h	71.9
Fuel Consumption @75% PRP	L/h	54.9
Fuel Consumption @50% PRP	L/h	38.9
njection system	Cummins PT	
Max fuel inlet temperature	℃	71

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

Cooling System		
Coolant capacity-engine only	L	20.8
Standard Thermostat Range	℃	82-94
Maximum coolant friction	kPa	41
Min. Pressure Cap	kPa	103

Exhaust system		
Exhaust gas temperature	℃	558
Exhaust gas flow	L/s	1095
Heat rejection to coolant	kW	257

Alternator Date-- Stamford		
Alternator Model	S4L1D-E41/S4L1S-E4	
Phase	3	
Voltage V	400	
Prime Power KW	280	
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

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