

# 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-G4
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	
Max. oil temperature	°C 121
Required sump plus filters	L 38.6
Rated 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	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 83.1
Fuel Consumption @100% PRP	L/h 75.3
Fuel Consumption @75% PRP	L/h 57.5
Fuel Consumption @50% PRP	L/h 39.9
FuelRailPressure-PSI	kPa 1254
Max fuel inlet temperature	°C 71

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

Cooling System	
Coolant capacity-engine only	L 20.8
Thermostat adjusting temperature	°C 82-94
Maximum coolant friction	kPa 41
Min. Pressure Cap	kPa 103

Exhaust system	
Max.exhaust temperature	°C 541
Exhaust gas flow	L/s 1225
Heat rejection to coolant	kW 263

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

## 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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