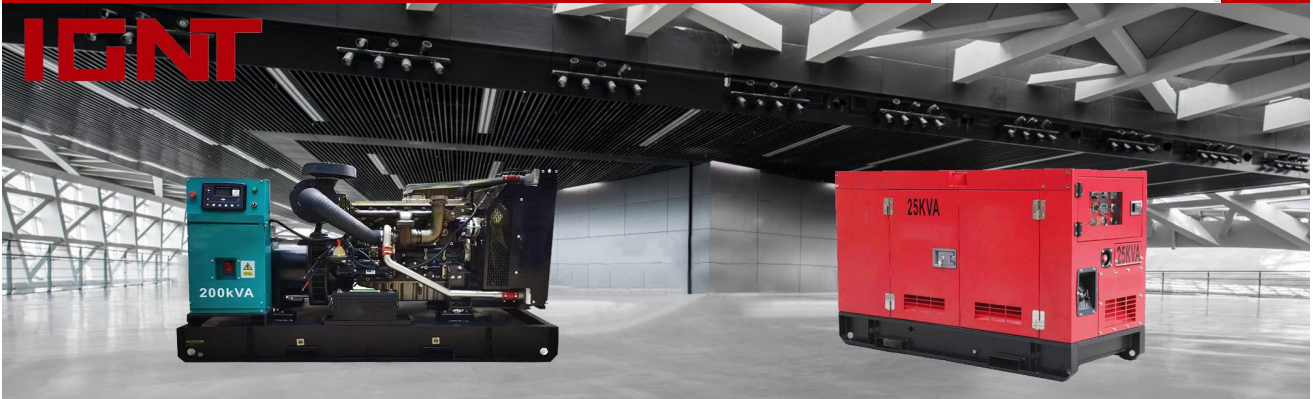


# IG480C

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 Safty System;  
ISO 9001:2015 Quality System

SERVICE		PRP	ESP
Power	KVA	436	480
Power	KW	349	384
standard voltage	V	400/230	
available voltage	V	380/220 415/240	
Rated Current	A	630	
frequency/speed	hz/rpm	50/1500	

## Weight and Dimension

Dimension		Open	Silent
Length ( L)	mm	3500	4590
Width ( W)	mm	1300	1600
Height ( H)	mm	2050	2500
Net Weight	KG	2960	4160
Fuel Tank	L	678	

## Engine Specifications

General Engine Data-- Cummins		
Engine Model		6ZTAA13-G2
Piston Speed	m/s	8.2
Fuel Injection		/
No. of Cylinders		6
Displacement	L	3.9
Bore* Stroke	mm	130*163
Compression Ratio		17:01
Rated Net Power	KW	349
Governor Type		ECM
Cooling Way		Water-cooled

### Air intake system

Maximum intake air restriction with heavy duty air cleaner:		
Air Intake Flow	m <sup>3</sup> /min	33

### Lubrication System

Lubrication system	L	45.4
Low idle	kPa	82.7
Rated speed	kPa	207-276

## Alternator Specifications

Alternator Data-- IGNT		
Alternator Model		IA544B
Phase		3
Voltage	V	400
Prime Power	KVA	436
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 @110% ESP	L/h	95.8
Fuel Consumption @100% PRP	L/h	89.1
Fuel Consumption @75% PRP	L/h	65.1
Fuel Consumption @50% PRP	L/h	43.2
Maximum Restriction	kPa	20.3
Maximum Fuel Inlet Temperat	°C	71

### Starter System

Start Motor Voltage	V	24
No. of Batteries		2

### Cooling System

Engine Coolant Capacity	L	23.1
Thermostat Operating Range	°C	82-94
Minimum Pressure	kPa	103
Max. coolant cycling	kPa	75

### Exhaust System

Max. Exhaust Temp.	°C	/
Exhaust Flow	kg/min	34.3
Max. Back Pressure	kPa	13

### Alternator Data-- Stamford

Alternator Model		S4L1D-G41
Phase		3
Voltage	V	400
Prime Power	KVA	436
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 voltage detection
- Mains voltage detection
- Generator/load power detection (kW, kVA, kVAr, p
- Generator overload protection (kW)
- Equipped with manual closing and opening functio
- Start gen-set when the battery voltage is low
- LCD and LED alarm indication
- Generator/load current monitoring and protection
- Fuel pump control function
- Can connect to all expansion modules
- Capable of graded loading
- Engine speed protection
- Engine preheating
- Engine starts rapidly&stops rapidly
- 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



629. 596



