

# IG50WP

INDUSTRIAL RANGE  
POWER BY WEICHAI

# 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	45	50
Power	KW	36	40
Standard Voltage	V	400/230	
Available Voltage	v	380/220	415/240
Rated Current	A	65	
Frequency/Speed	HZ/RPM	50/1500	

## Weight and Dimension

Dimension			Open	Silent
Length	(L)	mm	1850	2190
Width	(W)	mm	800	900
Height	(H)	mm	1100	1280
Net Weight	KG			
Fuel Tank	L		660	153

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## Engine Specifications

General Engine Data -- WEICHAI		
Engine Model	WP2.3D48E200	
Governer	E	
Aspiration	Turbocharged and aftercooled	
No. of Cylinders	4	
Displacement (L)	2.3	
Bore* Stroke (mm)	89*92	
Compression Ratio	17.5	
Rated Net Power(KW)	44	
Fuel system	mechanical pump	

Aspiration system		
Clean filter	kPa	≤3.5
Dirty filter	kPa	/
Air flow	L/s	200

Lubrication System		
Oil capacity	L	8
Oil consumption	g/kwh	0.4
Oil pressure	kPa	200-500

## Alternator Specifications

Alternator Data-- IGNT		
Alternator Model	IA224D	
Phase	3	
Voltage (V)	400	
Prime Power (KW)	36	
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	/
Fuel Consumption @100% PRP	L/h	9.2
Fuel Consumption @75% PRP	L/h	/
Fuel Consumption @50% PRP	L/h	/
Fuel Tank Capacity	L	150
Fuel Tank Capacity (Silent)	L	/

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

Cooling System		
Total coolant capacity	L	5
Thermostat operation range	°C	72-82
Max water temperature	°C	98±2

Exhaust system		
Max.exhaust temperature	°C	650
Exhaust gas flow	L/s	209
Max.allowed back pressure	kPa	8

Alternator Data-- Stamford		
Alternator Model	S1L2-R1	
Phase	3	
Voltage V	400	
Prime Power KW	36	
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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