

IG165P

INDUSTRIAL RANGE
POWER BY PERKINS

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	150	165
Power	KW	120	132
Standard Voltage	V	400/230	
Available Voltage	v	380/220	415/240
Rated Current	A	217	
Frequency/Speed	HZ/RPM	50/1500	

Weight and Dimension

	Dimension		Open	Silent
Length	(L)	mm	2250	3290
Width	(W)	mm	880	1130
Height	(H)	mm	1350	1850
Net Weight		KG		
Fuel Tank		L	400	

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Engine Specifications

General Engine Data -- PERKINS	
Engine Model	1106A-70TAG2
Governer	E
Aspiration	Turbocharged and air charge cooled
No. of Cylinders	6
Displacement (L)	7.01
Bore* Stroke (mm)	105*135
Compression Ratio	18.2
Rated Net Power(KW)	120
Cooling system	Water-cooled

Air intake system	
Intake air flow	m ³ /min 10.2

Lubrication System	
Min. capacity (L)	18L
Max. oil temperature permitted in oil pan (°C)	125

Alternator Specifications

Alternator Date-- IGNT	
Alternator Model	IA274F
Phase	3
Voltage (V)	400
Prime Power (KW)	128
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	36.1
Fuel Consumption @100% PRP	L/h	33.4
Fuel Consumption @75% PRP	L/h	24.7
Fuel Consumption @50% PRP	L/h	16.4
Fuel Tank Capacity (Open)	L	
Fuel Tank Capacity (Silent)	L	400

Starter System		
Start Motor Voltage	V	12
No. of Batteries		1

Cooling System		
Coolant capacity-engine only	L	9.5
Min. Pressure Cap	kPa	100

Exhaust system		
Exhaust gas flow	m ³ /min	23.78
Max. allowed back pressure	kPa	6

Alternator Date-- Stamford		
Alternator Model		UCI274F
Phase		3
Voltage	V	400
Prime Power	KW	128
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

Web: www.igntpower.com