

IG22P

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	20	22
Power	KW	16	18
Standard Voltage	V	400/230	
Available Voltage	v	380/220	415/240
Rated Current	A	29	
Frequency/Speed	HZ/RPM	50/1500	

Weight and Dimension

	Dimension	Open	Silent
Length	(L) mm	1500	2010
Width	(W) mm	750	900
Height	(H) mm	1050	1130
Net Weight	KG		
Fuel Tank	L	80	

Engine Specifications

General Engine Data -- PERKINS	
Engine Model	404D-22G
Governer	M
Aspiration	Naturally Aspirated
No. of Cylinders	4
Displacement (L)	2.2
Bore* Stroke (mm)	84*100
Compression Ratio	23.3
Rated Net Power(KW)	16
Cooling system	Water-cooled

Air intake system	
Intake air flow	L/s 24.17

Lubrication System	
Min.Capcity	L 8.9
Low idle	kPa 120
Rated speed	kPa 448

Alternator Specifications

Alternator Date-- IGNT	
Alternator Model	IG184E
Phase	3
Voltage (V)	400
Prime Power (KW)	18
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 6.1
Fuel Consumption @100% PRP	L/h 5.3
Fuel Consumption @75% PRP	L/h 4
Fuel Consumption @50% PRP	L/h 2.9
Fuel Tank Capacity (Open)	L
Fuel Tank Capacity (Silent)	L 80

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

Cooling System	
Coolant capacity-engine only	L 3.6
Thermostat adjusting temperatur	°C 82-95
Max.coolant cycling resistance exterior engine	tba
Min. Pressure Cap	kPa 90

Exhaust system	
Exhaust gas flow	L/s 60.67
Max.allowed back pressure	kPa 10.2

Alternator Date-- Stamford	
Alternator Model	SOL2-M1
Phase	3
Voltage V	400
Prime Power KW	18
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