

IG14P

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 | 13 | 14 |
| Power | KW | 10 | 11 |
| Standard Voltage | V | 400/230 | |
| Available Voltage | v | 380/220 | 415/240 |
| Rated Current | A | 18 | |
| Frequency/Speed | HZ/RPM | 50/1500 | |

Weight and Dimension

| | Dimension | Open | Silent |
|------------|-----------|------|--------|
| Length | (L) mm | 1500 | 1820 |
| Width | (W) mm | 750 | 850 |
| Height | (H) mm | 1050 | 1130 |
| Net Weight | KG | | |
| Fuel Tank | L | 56 | |

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Engine Specifications

| General Engine Data -- PERKINS | |
|--------------------------------|---------------------|
| Engine Model | 403D-15G |
| Governer | M |
| Aspiration | Naturally Aspirated |
| No. of Cylinders | 3 |
| Displacement (L) | 1.5 |
| Bore* Stroke (mm) | 84*90 |
| Compression Ratio | 22.5 |
| Rated Net Power(KW) | 12 |
| Cooling system | Water-cooled |

| Air intake system | |
|-------------------|----------|
| Intake air flow | L/s 18.3 |

| Lubrication System | |
|--------------------|---------|
| Min. capacity | L 4.5 |
| Low idle | kPa 120 |
| Rated speed | kPa 359 |

Alternator Specifications

| Alternator Date-- IGNT | |
|------------------------|-----------------------|
| Alternator Model | IA164C |
| Phase | 3 |
| Voltage (V) | 400 |
| Prime Power (KW) | 10.8 |
| 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 @110% ESP | L/h 7.5 |
| Fuel Consumption @100% PRP | L/h 6.8 |
| Fuel Consumption @75% PRP | L/h 5.5 |
| Fuel Consumption @50% PRP | L/h 4.4 |
| Fuel Tank Capacity (Open) | L |
| Fuel Tank Capacity (Silent) | L 56 |

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

| Cooling System | |
|--|---------|
| Coolant capacity-engine only | L 2.6 |
| Thermostat adjusting temperatur | ℃ 82-95 |
| Max.coolant cycling resistance exterior engine | tba |
| Min. Pressure Cap | kPa 90 |

| Exhaust system | |
|---------------------------|----------|
| Exhaust flow | L/s 45 |
| Max.allowed back pressure | kPa 10.2 |

| Alternator Date-- Stamford | |
|----------------------------|------------------------|
| Alternator Model | SOL1-L1 |
| Phase | 3 |
| Voltage | V 400 |
| Prime Power | KW 10.8 |
| 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

Email: ignt@igntpower.com

Web: www.igntpower.com