

IG1856P

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	1688	1856
Power	KW	1350	1485
Standard Voltage	V	400/230	
Available Voltage	v	380/220	415/240
Rated Current	A	2436	
Frequency/Speed	HZ/RPM	50/1500	

Weight and Dimension

	Dimension	Open	Silent
Length	(L) mm	5000	12192
Width	(W) mm	2200	2438
Height	(H) mm	2750	2591
Net Weight	KG		
Fuel Tank	L		

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Engine Specifications

General Engine Data -- PERKINS	
Engine Model	4012-46TAG3A
Governer	E
Aspiration	Turbocharged
No. of Cylinders	12
Displacement (L)	45.8
Bore* Stroke (mm)	160*190
Compression Ratio	13
Rated Net Power(KW)	1320
Cooling system	Water-cooled

Induction system		
Clean filter	kPa	2
Dirty filter	kPa	4
Air filter type	Paper element	

Lubrication System		
Total lub capacity	L	177
Sump maximum	L	159
Sump minimum	L	136

Alternator Specifications

Alternator Date-- IGNT	
Alternator Model	IA734D
Phase	3
Voltage (V)	400
Prime Power (KW)	1320
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	405
Fuel Consumption @100% PRP	L/h	370
Fuel Consumption @75% PRP	L/h	275
Fuel Consumption @50% PRP	L/h	187
Fuel Tank Capacity (Open)	L	
Fuel Tank Capacity (Silent)	L	

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

Cooling System		
Thermostat adjusting temp.	°C	71-85
Maximum top tank temp	°C	98
Radiator face area	m ²	4.1

Exhaust system		
Exhaust gas temp		TBD
Energy coolant flow	I/min	1020
Exhaust gas flow, wet		TBD

Alternator Date-- Stamford		
Alternator Model	S7L1D-D4	
Phase	3	
Voltage	V	400
Prime Power	KW	1320
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

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