

# IG2475P

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	2250	2475
Power	KW	1800	1980
Standard Voltage	V	400/230	
Available Voltage	v	380/220	415/240
Rated Current	A	3248	
Frequency/Speed	HZ/RPM	50/1500	

## Weight and Dimension

Dimension			Open	Silent
Length	(L)	mm	5800	12192
Width	(W)	mm	2800	2438
Height	(H)	mm	3400	2591
Net Weight	KG			
Fuel Tank	L			

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## Engine Specifications

General Engine Data -- PERKINS		
Engine Model	4016-61TRG3	
Governer	E	
Aspiration	Turbocharged	
No. of Cylinders	16	
Displacement (L)	61.1	
Bore* Stroke (mm)	160*190	
Compression Ratio	13	
Rated Net Power(KW)	1800	
Cooling system	Water-cooled	

Induction system		
Clean filter	kPa	1.2
Dirty filter	kPa	3.7
Air filter type	Donaldson	

Lubrication System		
Total lub capacity	TBD	
Sump maximum	L	213
Sump minimum	L	157

## Alternator Specifications

Alternator Date-- IGNT		
Alternator Model	IA734G	
Phase	3	
Voltage (V)	400	
Prime Power (KW)	1760	
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	528
Fuel Consumption @100% PRP	L/h	473
Fuel Consumption @75% PRP	L/h	346
Fuel Consumption @50% PRP	L/h	235
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.	℃	71-85
Maximum top tank temp	TBD	
Radiator face area	TBD	

Exhaust system		
Exhaust gas temp	℃	475
Energy coolant flow	I/s	23
Exhaust gas flow, wet	m3/min	490

Alternator Date-- Stamford		
Alternator Model	S7L1D-H4	
Phase	3	
Voltage	V	400
Prime Power	KW	1760
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 Data-- 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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