IG110P

INDUSTRIAL RANGE
POWER BY PERKINS

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 ℃
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 Safty System;
ISO 9001:2015 Quality System

SERVICE		PRP	ESP
Power	KVA	100	110
Power	KW	80	88
Standard Voltage	V	400/230	
Available Voltage	v	380/220	415/240
Rated Current	A	144	
Frequency/Speed	HZ/RPM	50/1500	

Weight and Dimension

Dimension			Open	Silent
Length	(L)	mm	1900	2690
Width	(W)	mm	800	1080
Height	(H)	mm	1250	1450
Net Weight		KG		
Fuel Tank		L		198

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Engine Specifications

General Engine Date -- PERKINS	
Engine Model	1104C-44TAG2
Governer	E
Aspiration	Turbocharged and Air to Air charge cooling
No. of Cylinders	4
Displacement (L)	4.4
Bore* Stroke (mm)	105*127
Compression Ratio	18.23
Rated Net Power(KW)	80
Cooling system	Water-cooled

Fuel System		
Fuel Consumption @100% ESP	L/h	24.9
Fuel Consumption @100% PRP	L/h	22.6
Fuel Consumption @75% PRP	L/h	17.1
Fuel Consumption @50% PRP	L/h	11.8
Fuel Tank Capacity (Open)	L	
Fuel Tank Capacity (Silent)	L	198

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

Air intake system		
Intake air flow	L/s	100

Cooling System		
Coolant capacity-engine only	L	7
Thermostat adjusting temperatur	℃	82-93
Min. Pressure Cap	kPa	100

Lubrication System		
Engine Oil Capcity	L	8.5
Low idle	kPa	276
Rated speed	kPa	470

Exhaust system		
Exhaust gas flow	L/s	253
Max.allowed back pressure	kPa	18

Alternator Specifications

Alternator Date-- IGNT	
Alternator Model	IG274C
Phase	3
Voltage (V)	400
Prime Power (KW)	80
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

Alternator Date-- Stamford		
Alternator Model		UCI274C
Phase		3
Voltage	V	400
Prime Power	KW	80
Pole		4
Excitation System		elf-excited, Brushles
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 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	Optional Configuration
● 50℃ radiator for belt driven fan	● Battery charger
○ 12/24V charging alternator	○ Engine pre-heater
● One set of air/fuel/oil fiters	● Alternator pre-heater
○ Chassis with integrated fuel tank	○ PMG/ AREP/ MAUX
● Emergency stop button	● Water-oil seperator
○ Anti-vibration shock absorbers	○ Inside automatic transfer switch/ ATS box
● Main circuit breaker/ MCCB	● Grounding cooper rod
○ Auto control system	○ Remote control system
● User manual	● 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