

IG1650C/I

INDUSTRIAL RANGE
POWER BY CUMMINS

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	1500	1650
Power	KW	1200	1320
Standard Voltage	V	400/230	
Available Voltage	v	380/220	415/240
Rated Current	A	2165	
Frequency/Speed	HZ/RPM	50/1500	

Weight and Dimension

	Dimension		Open	Silent
Length	(L)	mm	5270	12192
Width	(W)	mm	2226	2438
Height	(H)	mm	2550	2896
Net Weight		KG	10061	18061
Fuel Tank		L		

IG1650C/I

INDUSTRIAL RANGE
POWER BY CUMMINS

IGNT

Engine Specifications

General Engine Data -- CUMMINS

Engine Model	KTA50-GS8	
Aspiration	Turbocharged&Low Temp. Aftercooled	
Fuel system	5360	
No. of Cylinders	12	
Displacement	L	50.3
Bore* Stroke	mm	159*159
Compression Ratio	14.9:1	
Rated Net Power	KW	1200
Governor Type	E	
Cooling Way	Water-cooled	

Air intake system

Maximum intake air restriction with heavy duty air cleaner:		
Dir ty element	6	2kpa

Lubrication System

Engine Oil Capacity	L	204
Oil Consumption	g/kWh	138
Oil Pressure	kPa	121

Alternator Specifications

Alternator Date-- IGNT

Alternator Model	IA734C	
Phase	3	
Voltage (V)	400	
Prime Power (KW)	1200	
Pole	4	
Excitation System	Self-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	345
Fuel Consumption @100% PRP	L/h	309
Fuel Consumption @75% PRP	L/h	238
Fuel Consumption @50% PRP	L/h	167
Fuel Tank Capacity (Open)	L	/
Fuel Tank Capacity (Silent)	L	/

Starter System

Start Motor Voltage	V	24
No. of Batteries	2	

Cooling System

Engine Coolant Capacity	L	165
Thermostat Operating Range	°C	82-93°C
Max. Water Temp.	°C	104
Min. Pressure Cap	kPa	96

Exhaust system

Max. Exhaust Temp.	°C	499
Exhaust Gas Flow	L/s	4038
Max. Back Pressure	kPa	1581

Alternator Date-- Stamford

Alternator Model	S7L1D-C4	
Phase	3	
Voltage (V)	400	
Prime Power (KW)	1200	
Pole	4	
Excitation System	Self-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