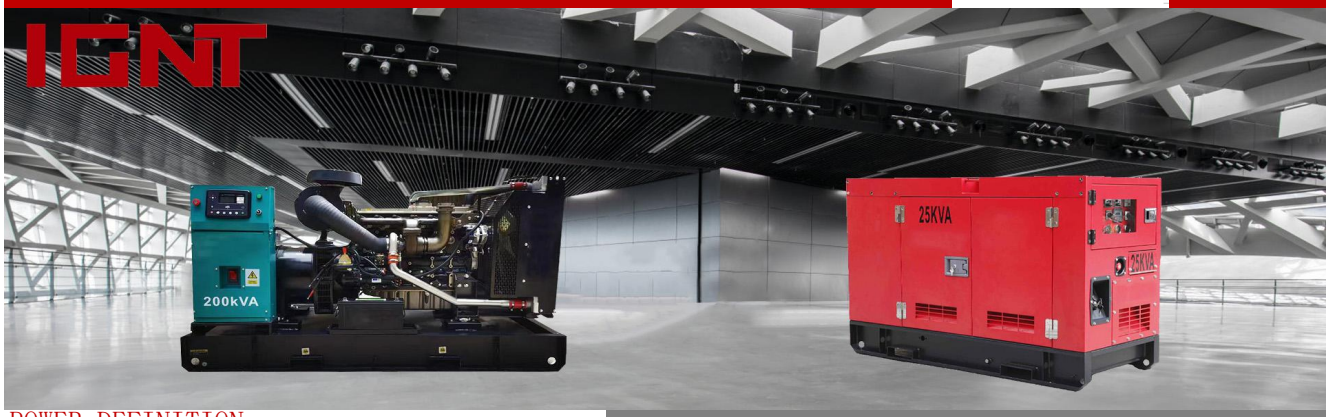
IG704C/I

INDUSTRIAL RANGE
POWER BY CUMMINS



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	640	704
Power	KW	512	563
Standard Voltage	V	400/230	
Available Voltage	v	380/220	415/240
Rated Current	A	924	
Frequency/Speed	HZ/RPM	50/1500	

Weight and Dimension

Dimension			Open	Silent
Length	(L)	mm	3775	5812
Width	(W)	mm	1494	2090
Height	(H)	mm	2383	2520
Net Weight		KG	4207	5977
Fuel Tank		L		

IG704C/I

INDUSTRIAL RANGE
POWER BY CUMMINS

IGNT

Engine Specifications

General Engine Date -- CUMMINS		
Engine Model		VTA28-G5
Aspiration		Turbocharged and Aftercooled
Fuel system		Cummins PT
No. of Cylinders		12
Displacement	L	28
Bore* Stroke	mm	140*152
Compression Ratio		13.1
Rated Net Power	KW	512
Governor Type		E
Cooling Way		Water-cooled

Fuel System		
Fuel Consumption @110% ESP	L/h	154
Fuel Consumption @100% PRP	L/h	TBD
Fuel Consumption @75% PRP	L/h	TBD
Fuel Consumption @50% PRP	L/h	TBD
Fuel Tank Capacity (Open)	L	600
Fuel Tank Capacity (Silent)	L	1000

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

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

Cooling System		
Engine Coolant Capacity	L	83
Coolant ratio	50% ethylene glycol	
Limiting ambient temp	℃	50
Fan power	kPa	19.6

Lubrication System		
Engine Oil Capcity	L	83
Oil Consumption	g/kWh	0.5-1%
Oil Pressure	kPa	/

Exhaust system		
Maximum exhaust temperature	℃	507
Exhaust gas flow	L/s	2048
Maximum allowed back pressure	kPa	10

Alternator Specifications

Alternator Date-- IGNT	
Alternator Model	IA544E
Phase	3
Voltage (V)	400
Prime Power (KW)	512
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

Alternator Date-- Stamford		
Alternator Model		S5L1D-E4
Phase		3
Voltage	V	400
Prime Power	KW	512
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

IG704C/I

INDUSTRIAL RANGE
POWER BY CUMMINS

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