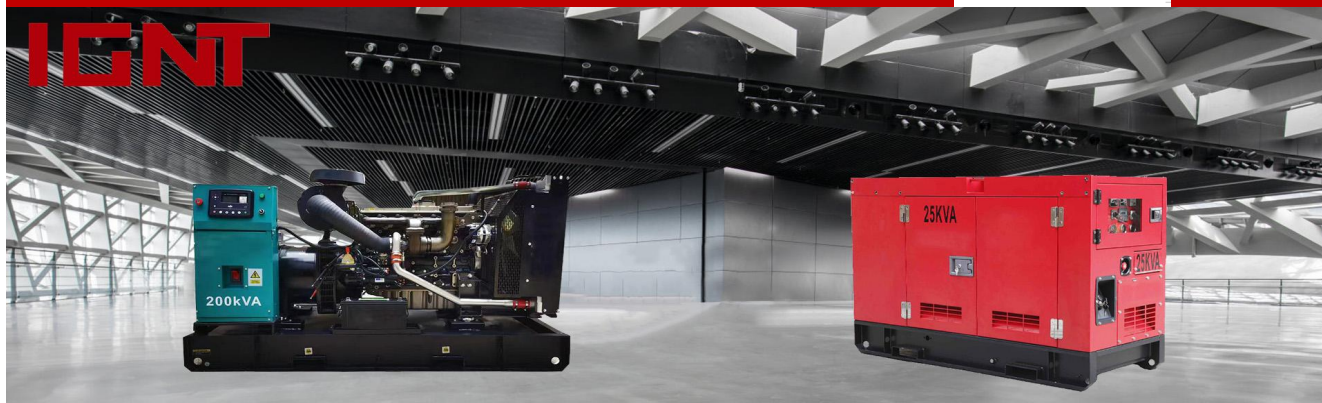


# IG1650MTU

INDUSTRIAL RANGE  
POWER BY MTU

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	4700	12192
Width	(W)	mm	2150	2438
Height	(H)	mm	2250	2591
Net Weight	KG			
Fuel Tank	L			

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## Engine Specifications

### General Engine Data -- MTU

Engine Model	12V 4000 G23
Operated method	Four stroke diesel
Number of Turbocharger	4
No. of Cylinders	12
Displacement (L)	57.2
Bore* Stroke (mm)	170*210
Compression Ratio	16.5
Flywheel housing flange	SAE 0
Combustion system	Direction injection

### Air intake system

Maximum intake air restriction	
Combustion air volume flow	1.8m3/sec
Intake air depression	15 mbar

### Heat dissipation

Engine coolant dissipation 100% load	580kw
Radiation and convection heat	75kw

## Alternator Specifications

### Alternator Data-- IGNT

Alternator Model	IA734C
Phase	3
Voltage (V)	400
Prime Power (KW)	1240
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	386.59
Fuel Consumption @100% PRP	L/h	351.45
Fuel Consumption @75% PRP	L/h	265.69
Fuel Consumption @50% PRP	L/h	188.74
Fuel Tank Capacity (Open)	L	/
Fuel Tank Capacity (Silent)	L	/

### Starter System

Start Motor Voltage	V	24
No. of Batteries		2

### Cooling System

Coolant temperature	°C	100
Coolant pump: inlet pressure, max		1.5bar
Cooling equipment: design pressure		2.5bar
Coolant flow rate	m3/H	56

### Exhaust System

Max. Exhaust Temp.	°C	460
Exhaust volume flow	M3/sec	4.5
Exhaust backpressure limite value		85mbar

### Alternator Data-- Stamford

Alternator Model		S7L1D-C4
Phase		3
Voltage	V	400
Prime Power	KW	1240
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

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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

- 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](mailto:ignt@igntpower.com)

Web: [www.igntpower.com](http://www.igntpower.com)