

# IG1650M

INDUSTRIAL RANGE  
POWER BY SME

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	4500	6096
Width	(W)	mm	2210	2438
Height	(H)	mm	2380	2592
Net Weight	KG			
Fuel Tank	L			

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## Engine Specifications

### General Engine Data -- SME

Engine Model	S12R-PTAA2-C
Governer	E
Cycle	4 stroke
No. of Cylinders	12
Displacement (L)	49.3
Bore* Stroke (mm)	170*180
Compression Ratio	13.5
Rated Net Power(KW)	1200
Approximate engine weight	5520kg

### Air intake system

Air cleaner	Donaldson EGB 20 x 2 pcs
Turbocharger	Mitsubishi type TD and TF
Air cooler	Plated element type

### Lubrication System

Engine Oil Capacity	L	480
Oil pressure at main gallery	0.5-0.65Mpa	
Air cooler	Air cooled type	

## Alternator Specifications

### Alternator Data-- IGNT

Alternator Model	IA734C
Phase	3
Voltage (V)	400
Prime Power (KW)	1200
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	341
Fuel Consumption @100% PRP	L/h	308
Fuel Consumption @75% PRP	L/h	231
Fuel Consumption @50% PRP	L/h	162
Fuel Tank Capacity (Open)	L	/
Fuel Tank Capacity (Silent)	L	/

### Starter System

Start Motor Voltage	V	24
No. of Batteries	2	

### Cooling System

Water pump	Gear drive centrifugal type	
Capacity of water pump	1650L/min	
Thermostat	Wax pellet type x 2pcs Open at 71-85 °C	

### Control system

Connector	Loose supply	
Potentiometer	Not supply	
Magnetic pick up	With connector	

### Alternator Data-- Stamford

Alternator Model	S7L1D-C4
Phase	3
Voltage V	400
Prime Power KW	1200
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 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

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