

IG1870M

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	1700	1870
Power	KW	1360	1496
Standard Voltage	V	400/230	
Available Voltage	v	380/220	415/240
Rated Current	A	2454	
Frequency/Speed	HZ/RPM	50/1500	

Weight and Dimension

Dimension			Open	Silent
Length	(L)	mm	4500	12192
Width	(W)	mm	2210	2438
Height	(H)	mm	2380	2591
Net Weight	KG			
Fuel Tank	L			

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Engine Specifications

General Engine Data -- SME

Engine Model	S16R-PTA-C
Governer	E
Cycle	4
No. of Cylinders	16
Displacement (L)	65.4
Bore* Stroke (mm)	170*180
Compression Ratio	14
Rated Net Power(KW)	1360
Approximate engine weight	6750kg

Air intake system

Air cleaner	Donaldson FTG15L x 4 pcs
Turbocharger	Mitsubishi type TD type
Air cooler	Plated element type

Lubrication System

Engine Oil Capacity	L/min	480
Oil pressure at main gallery	0.5-0.65Mpa	
oil cooler	Water cooled corrugated type	

Alternator Specifications

Alternator Data-- IGNT

Alternator Model	IA734D
Phase	3
Voltage (V)	400
Prime Power (KW)	1360
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	375
Fuel Consumption @100% PRP	L/h	342
Fuel Consumption @75% PRP	L/h	260
Fuel Consumption @50% PRP	L/h	183
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 4pcs Open at 71-85 °C

Control system

Connector	Loose supply
Potentiometer	Not supply
Magnetic pick up	With connector

Alternator Data-- Stamford

Alternator Model		S7L1D-D4
Phase		3
Voltage	V	400
Prime Power	KW	1360
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

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