

Applicable Standards

All SD series generators are designed and manufactured according to the general global standard
[Example: JEM-1354, KSC-4001, MIL-STD-705B, VDE-0530, NEMA MG1-22, IEC 34, CSA C22 2-100, AS1359 etc.]

Standard Conditions for use

- The ambient temperature: 5 °C - 40 °C
- The use altitude: Less than 1,000 m sea level

Note:

In case of over 40°C of the ambient temperature, the output reduces 4% at + 5°C.

General Specification

- Phase : 3 phase 4 wires
- Voltage : 380(190)V, 400(200)V, 416(208)V, 440(220)V, 460(230)V, 480(240)V
[Other voltages are available if required.]
- Frequency : 60Hz, 50Hz
- Number of poles : 4P [Low noise type]
- Power factor : 0.8 [lag]
- Insulation type : H
- Protection type : IP23

Performance

- Voltage Fluctuation : $\pm 1\%$
In case of balanced-load, 100 % of full load, power factor 0.8, the velocity fluctuation -2% - +5%, the output voltage change can be maintained within 1 %.
- Transient Voltage Change : 15%~20%
The output voltage declined 15% - 20 % by applying 100 % of full load on power factor 0.8, and the declining output voltage recovers in 3 % of the rated voltage value within 0.2 - 0.3 seconds.
- Manual Voltage Adjusting : $\pm 5\%$ [The voltage can be controlled using the trimmer of AVR]
- Wave Form : Less than 5 % [THF]
- Radio Interference : A degree as much as the level G based on the general VDE-0875 standard.
- Single Phase Operation : Capacity for the continuous-running is approx. 60 % of 3-phase load.
- Engine Starter : The starter capacity of the engine is more than 1HP/1kVA.



Caution about the safety

To use a machine safely, always read an instruction manual well before use. With the un-safe handling, it sometimes becomes an unexpected accident.

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IKEGAI DIESEL Ltd.

DIESEL ENGINE
GENERATOR SETS
SD SERIES

The Emergency-Generator Sets

DIESEL ENGINE
GENERATOR SETS
SD SERIES

SD series



Soundproof Cabinet



Diesel Engine Generator Set



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Printed in Japan 2008/08

IKEGAI DIESEL Ltd., Japan

KYOWA & CO., LTD., JAPAN

Overview

Ikegai Diesel Ltd has provided "Ikegai Diesel Engine Generator Set " to customers in wide industrial fields since the development in 1975. In this time, we have developed **New Diesel Engine Generator Set "SD series "** by the tie-up with Sam Yang Electrical Engineering Co., Ltd. The diesel engine generator set **"SD series"** with higher cost performance under the long experience in the diesel engine of Ikegai Diesel Ltd. and the generator know-how on Japanese advanced technology.

It provides the finest diesel generator set which is designed and manufactured in the severe quality control system to have been manufactured, also fits the wide range of the global standard,. Ikegai Diesel Ltd. and our service shops provide the customs with wide range of support for installation, inspection, maintenance and check services.

The **"SD series "** is the products that can meet the various requests from the customers, and is the most competitive generator set for the application of the manufacturing, the commercial, the construction, telecommunication, the mining industry and the marine fields.

Features

- *The strongly solid structure*
- *The compact and light-weight design*
- *The long durability and standing performance*
- *Wide range of use environment*
- *Simple maintenance*



Specification

MODEL			SD26		SD26EX		SD50		SD60		SD90		SD130		SD170		SD200		SD275		SD300		SD330		SD360		SD400		SD500		SD610		SD660		
GENERATOR	FREQUENCY		Hz	50	60	50	60	50	60	50	60	50	60	50	60	50	60	50	60	50	60	50	60	50	60	50	60	50	60	50	60	50	60		
	OUTPUT	STANDBY	KVA	27	33	28	33	49	63	60	75	94	113	130	163	180	210	220	250	308	344	346	375	355	400	406	450	463	500	550	625	660	763	725	825
			KW	22	26	23	27	39	50	48	60	75	90	104	130	144	168	176	200	242	275	277	300	284	330	325	360	370	400	440	500	528	610	580	660
		PRIME	KVA	25	30	25	30	45	56	55	69	83	103	118	138	164	194	200	228	275	313	306	338	325	362	363	409	400	455	500	556	615	691	663	746
			KW	20	24	20	24	36	45	44	55	66	82	94	110	131	153	160	182	220	250	245	270	260	290	290	327	320	364	400	445	492	553	530	597
	VOLTAGE		V	208/120, 220/127										208/120, 220/127, 380/220, 416/240, 440/254										208/120, 220/127, 380/220, 416/240, 440/254, 3300, 6600											
	PHASE & WIRE			3P 4W										3P 4W										3P 4W											
	POWER FACTOR			0.8 (lag)										0.8 (lag)										0.8 (lag)											
	NO. OF POLE			4										4										4											
	INSULATION			H										H										H											
ENGINE	MODEL		A-4JG2-S / DB33			V3300-B		P034T1		DB58		D1146		D1146T		P086TI-1		P086T1		P126T1		P126T1-11		P158LE-2		P158LE-1		P158LE		P180LE		P222LE		P222LE-II	
	MAKER		Isuzu / Doosan			Kubota		Doosan		Doosan		Doosan		Doosan		Doosan		Doosan		Doosan		Doosan		Doosan		Doosan		Doosan		Doosan		Doosan		Doosan	
	OUTPUT		PS	39	47	40	50	66	83	81	96	118	145	164	206	227	266	273	306	374	409	433	470	441	496	497	551	569	608	681	741	797	916	901	1020
	REVOLUTION		Min ⁻¹	1500	1800	1500	1800	1500	1800	1500	1800	1500	1800	1500	1800	1500	1800	1500	1800	1500	1800	1500	1800	1500	1800	1500	1800	1500	1800	1500	1800	1500	1800	1500	1800
	FUEL CONSUMPTION		L/Hr	6.9	8.1	8.3	10.3	11.2	14.0	13.9	16.4	20.6	24.7	25.9	32.5	38.3	47.5	43.1	50.6	58.1	67.1	63.1	77.6	73.2	88.1	81.3	97.3	89.3	100.4	111.6	125.4	134.0	153.9	153.9	178.3
	NO. OF CYLINDER			4		4		4		6		6		6		6		6		6		6		V8		V8		V8		V10		V12		V12	
	GOVERNOR			MECHANICAL										ELECTRIC																					
	COOLING SYSTEM			RADIATOR & WATER COOLED										RADIATOR & INTERCOOLED																					
SET	OUTSIDE DIMENSION (mm)		L	1855		1855		2030		2312		2500		2500		2730		2730		2995		2995		2990		2990		2990		3390		3390		3390	
			W	750		750		750		830		830		830		950		950		1015		1015		1390		1390		1390		1390		1390		1390	
			H	1304		1304		1304		1310		1260		1260		1570		1570		1590		1590		1875		1875		1875		1875		1875		2075	
	WEIGHT		Kg	815		840		860		1150		1550		1630		2350		2400		2700		2900		3000		3150		3300		4000		5000		5200	

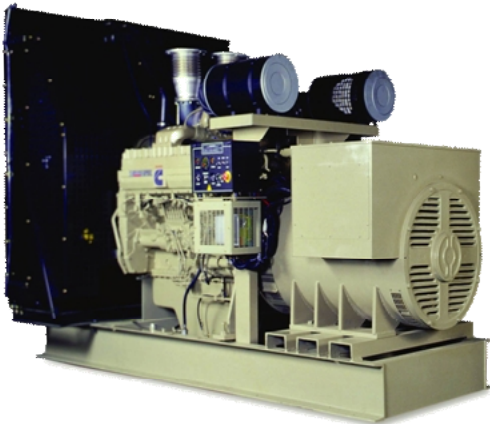
Note: Outside Dimension & Weight may change according to Option selection and improvements in quality.

Control panel

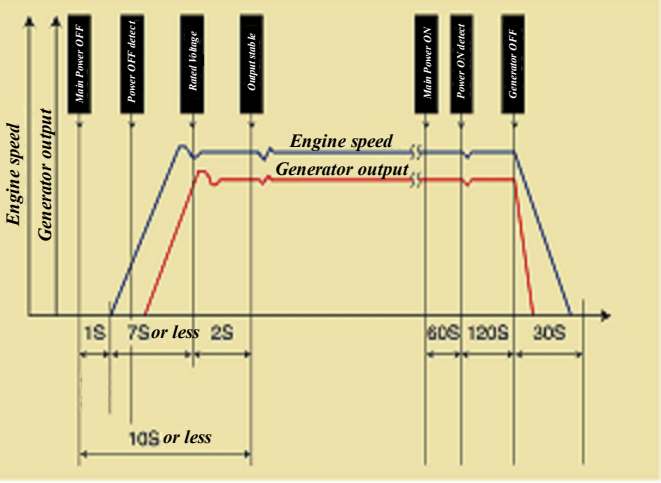
- Voltmeter
- Ammeter
- Frequency Meter
- Hours-of-Operation Recorder
- Coolant Temperature Gauge
- Lubricating oil pressure gauge
- Battery Charging Voltmeter
- Voltage Adjusting VR
- Voltage (Current) Select Switch
- Auto-Stop-Manual Select Switch
- MCCB (Main Power/Heater)
- Status Display / Alarm-Display LED :



Front View of Control Panel



Time Chart (10 seconds start up type)



Standard accessories

- MCCB (Main Circuit Breaker) **
- Fuel Tank
- Battery
- Battery Charger
- Coolant Water Pre-Heater
- Radiator
- Bonnet Type Control panel
- Silencer
- Standard Tools
- Standard Spare Parts
- ** Modes for 3300/6600V output do not include MCCB.

Options

- Parallel Operation System
- Soundproof Cabinet