



Denyo

World of Opportunities



User-Friendly Design

All Denyo generators are compact and lightweight for fast and convenient deployment. Strong solid steel canopy is built to allow generators to be double stacked, saving valuable space.

Noise suppression is achieved using highly effective sound insulating materials and special vibration isolators to minimise vibrations during operation.



ADVANCED BRUSH-LESS GENERATOR

Designed for long-term use.

DESIGN: The patented brush-less generator is a rotating-field, self-ventilated, single-bearing, 4-pole synchronous alternator, complete with damper windings for minimal voltage deviations and to minimise effect on magnetic/radio waves.

EXCITER: Brush-less rotating exciter designed for maximum motor starting.

ROTOR: Dynamically balanced and aligned to the engine.

COOLING: Direct-drive centrifugal ventilating fan to prevent generator damage due to high temperature.



HIGH PERFORMANCE

Stable and durable even in heavy motor load fluctuations. Provides optimum support on work sites.

TEMPERATURE RISE: 100°C temperature rise at 40°C ambient (JEC 114)

INSULATION: Class F & H

VOLTAGE REGULATION: Within $\pm 1.5\%$

FREQUENCY REGULATION: Within 5.0% through no-load to full-load

VOLTAGE WAVEFORM: Deviation Factor of open-circuit terminal voltage does not exceed 0.06 Telephone Influence Factor (TIF) is less than 50

ELECTROMAGNETIC INTERFERENCE LEVEL: Attenuated to meet most commercial requirements

INSULATION RESISTANCE: Higher than 3 mega-ohms, measured between armature windings and earth, field control circuit and earth



ECONOMICAL PERFORMANCE

Significantly reduces running costs and downtime.

Diesel engine designed to support low fuel consumption. Uninterrupted generator operation for up to 12 hours under full load.

Large door for access to engine and external drain plugs for oil, fuel and water gives ease in performing routine maintenance. For major engine overhauls, the canopy (bonnet) can be simply unbolted.



AUTO-PROTECTION

Protects the user against electric shock and the generator against accidents.

Warning lamp and an in-built emergency system to detect faults such as low oil pressure, high water temperature and charging failure. Emergency shut-down in the event of AC overload through circuit breaker.



UNSURPASSED FLEXIBILITY

Easy to operate by anyone, anytime and anywhere.

TRUE HEAVY-DUTY PERFORMANCE

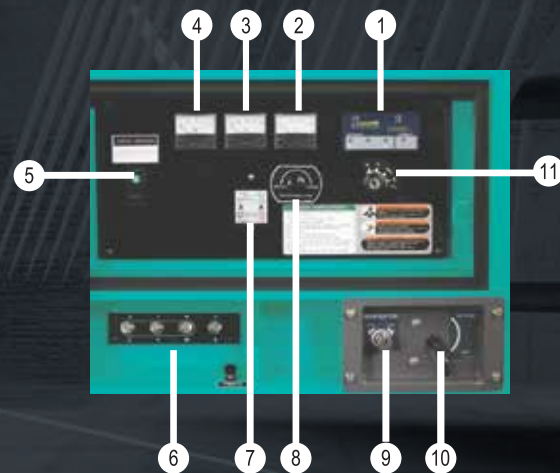
Capable of supplying power for a wide range of applications and in harsh, demanding environment.

50Hz/60Hz OPERATION

Can be operated at either 50Hz or 60Hz by simply adjusting the engine speed using the throttle control knob.



MONITORING GENERATOR PERFORMANCE



DCA-13ESK-DA

- ① Engine Monitor (Fuel Level Indicator, Hour Meter, Warning Lamp, Preheat Lamp)
- ② AC Voltmeter ③ AC Ammeter ④ Frequency Meter ⑤ Circuit Breaker
- ⑥ Output Terminal ⑦ Earth Leakage Relay (Option) ⑧ Voltage Regulator
- ⑨ Frequency Adjust Screw ⑩ Throttle Lever ⑪ Starter Switch



SPECIFICATION TABLE

MODEL	SINGLE PHASE TYPE						THREE PHASE TYPE							
	DCA-10ESX-DA	DCA-18ESX-DA	DCA-25SPX-DA	DCA-13ESK-DA	DCA-15ESK-DA	DCA-25ESK-DA	DCA-35SPK-DA							

■ ALTERNATOR

Frequency (Hz)		50	60	50	60	50	60	50	60	50	60	50	60	50	60
Output Rating (KVA)	Continuous	8	10	14	18	20	25	10.5	13	12.5	15	20	25	30	35
	Standby	8.8	10.8	15	19	22	27.5	11.5	14	13.5	16.5	22	27.5	31.5	36.8
No. of Phases		Single-Phase, 2 – Wire							3 – Phase, 4 – Wire						
Rated Voltage (V)		50Hz: 200/220 60Hz: 200/240							50Hz: 190~220 or 380~440 60Hz:190~240 or 380~480						
Power Factor		1.0							0.8						
Voltage Regulation (%)		Within \pm 1.0							Within \pm 1.5						
Excitation		Brushless, Rotating Exciter (whit A.V.R.)													
Insulation		Class H				Class F		Class H						Class F	

■ ENGINE

Make & Model		Kubota D1403-KA		Kubota V2203-KB		Kubota V3300-EB		Kubota D1403-KA		Kubota D1703-KB		Kubota V2203-KB		Kubota V3300-EB	
Type		Inlined, Swirl Chamber Type													
Output Rating	PS/rpm ⁻¹	13.9/1500	16.9/1800	25.0/1500	32.2/1800	35.3/1500	43.0/1800	13.9/1500	16.9/1800	16.9/1500	20.0/1800	25.0/1500	32.2/1800	38.5/1500	44.1/1800
	KW/min ⁻¹	10.2/1500	12.4/1800	18.4/1500	23.7/1800	26.2/1500	32.1/1800	10.2/1500	12.4/1800	12.4/1500	14.7/1800	18.4/1500	23.7/1800	28.3/1500	32.4/1800
No. of Cylinders-Bore X Stroke (mm)		3 – 80 X 92.4		4 – 87 X 92.4		4 – 98 X 110		3 – 80 X 92.4		3 – 87 X 92.4		4 – 87 X 92.4		4 – 98 X 110	
Piston Displacement (L)		1.393		2.197		3.318		1.393		1.647		2.197		3.318	
Fuel		ASTM No. 2 Diesel Fuel or Equivalent													
Fuel Consumption (L/h)		2.3	2.9	3.6	4.6	5.1	6.3	2.4	2.9	2.8	3.4	3.9	4.9	5.8	6.9
Lube Oil Sump Capacity (L)		5.6		7.6		13.2		5.6				7.6		13.2	
Coolant Capacity (L)		6.4		7.9		9.0		6.4				7.9		10.5	
Battery Capacity (V-Ah)		12 – 60 X 1pc				12 – 95 X 1pc		12 – 60 X 1pc						12 – 95 X 1pc	
Fuel Tank Capacity (L)		62				82		62						82	

■ UNIT

Dimensions(mm)	Length	1390	1540	1900	1390	1390	1540	1900
	Width	650	650	860	650	650	650	860
	Height	900	900	990	900	900	900	990
Dry Weight	kg	503	591	890	503	516	591	890

■ SOUND LEVEL

7m/dB (A) 1500/1800rpm (min ⁻¹)	60	62	61	65	60	63	59	61	60	63	61	65	60	63
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- Continuous output rating applies to operation under standard conditions as per JIS B8014.
- Standby output rating applies to intermittent or emergency operation for approximately 1 hour as per JIS B8014.
- Fuel consumption is based on operation at 75% load.
- Sound level reflects high-speed no-load and is calculated by averaging the measurement at four points, each 7 metres from the source.
- Colour of products may differ from printed catalogues.
- Specifications given are subject to change without notice.

+65 6862 2301

sales@sg.denyogroup.com

sg.denyogroup.com

No. 9 Neythal Road,
Singapore 628614