

**DIESEL GENERATING SETS**  
**SINGLE PHASE TYPE**  
(5~60kVA)

Developing Technology Tomorrow's Power Needs.

**Denyo**<sup>®</sup>

# **DCA-LSX/ESX** series



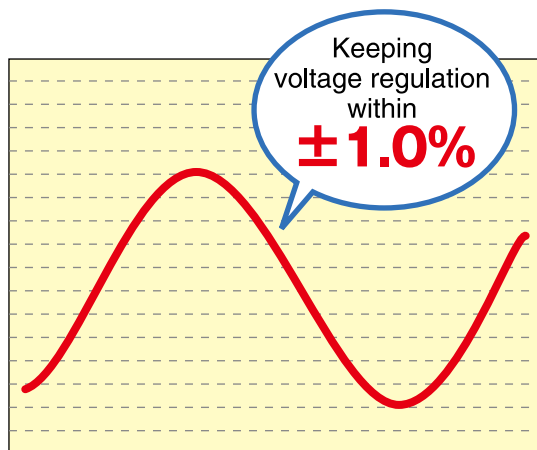
**DCA-6LSX**



**DCA-40ESX**

***Denyo Co., Ltd.***

# Denyo's New Generator S Minimal Voltage Fluctuat and Wave Distortion.



DCA-6LSX



DCA-10LSX



DCA-30ESX



DCA-40ESX

## Voltage Regulation Within $\pm 1.0\%$

Denyo's original high-performance Automatic Voltage Regulator (AVR) maintains superb stability output by keeping voltage regulation within  $\pm 1.0\%$ .

## In-Built Convenience

A standard "Emergency Stop Device" will shut down the generator automatically when a malfunction is detected. In addition, an In-Built Breaker" protects the generator from overloads (the warning light for models less or equal DCA-15LSX will turn on when Low Oil Pressure, High Water Temperature and Insufficient charging are detected. The safety-monitoring-indicator used in models over DCA-18ESX will turn on when Low Fuel Level, Dust, Low Oil Pressure, High Water Temperature, and other Foreign Particles inside the unit is detected.)

And optional "Earth Leakage Relay" protects the user from electrocuted (models for DCA-6LSX, 15LSX, 18ESX).

## Quiet Operation

Original sound-proofing technology reduces the noise level to under 65dB(7m). These generators are classified as super Low Noise Construction Machine according to the standards issued by the Japanese Ministry of Construction.

## Minimal Waveform Distortion

Improved design of damper coil and generator keeps waveform distortion to negligible levels, even SCR and compact X-ray unit loads and as a back-up power supply for computer systems.

## Low-Cost Operation

The design of 4-pole generator enables the use of economical low engine speeds within the range of 1,500 to 1,800 rpm. The efficient generator with 4-cycle diesel engine further reduces fuel consumptions.

# ets Assure ion Rate



**DCA-15LSX**



**DCA-60ESX**

## Breather System Engines

As the Breather System engine does not exhaust blow-by gas, inside of the generator is always clean.

## Automatic Fuel Bleeding Devices

(Used in DCA-6LSX, 10LSX, 15LSX, 18ESX, 60ESX)

Just turn the starter switch on, it releases air from the fuel automatically. It will neither taint inside of the machines nor the operator's hands.

## Option

### Slowdown Device

In addition to a slowdown function that automatically change to high-speed operation when a load is applied, and to low-speed operation when there is no load, this device has an automatic idling function that performs warm-up operation when the engine is started (between 5 and 180 seconds depending upon the room temperature where the unit is located). Furthermore, the addition of a remote-control box allows the engine starting/stopping and automatic idling function as well as the slowdown function to be operated from a remote location.

### Trailer/Caster (two wheel or four wheel type)

Trailers can be fitted to the generators to facilitate on-site movement.



PHOTO:  
Two Wheel Type Trailer

### Mounting of muffler flange



### Anti-Damage from Salt Water Specifications

This specification is designed for the unit which is used on the coast or off shore, and includes treatment to prevent insulation resistance from dropping and corrosion resistant treatment of the parts.

### Automatic Idling Unit

(Option only for DCA-60ESX)

Automatic idling function; after warming-up 5 to 180 seconds according to the temperature at the starting and a low speed cooling-down at the stopping are controlled.

Slowdown function; as the engine speed is changed automatically according to the capacity of loads, it enables a reduction in the fuel consumption.

Using the option remote control unit, the engine and the above function can be operated from a distance.

\*Some options may not be available depend on the models. Please confirm the details with a Denyo's sales person.

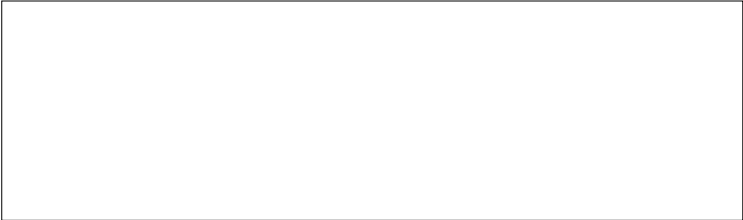
Specifications

Model  Item			Sound-Proof Type															
			DCA-6LSX		DCA-10LSX		DCA-15LSX		DCA-18ESX		DCA-30ESX		DCA-40ESX		DCA-60ESX			
Generator	Frequency	Hz	50	60	50	60	50	60	50	60	50	60	50	60	50	60		
	Output	kVA	5	6	8	10	13	15	14	18	24	30	33	40	50	60		
	Voltage	V	50Hz:100,110,200,220,230,240 60Hz:100,110,120,200,220,240						50Hz:100/200 ~ 110/220 60Hz:100/200 ~ 120/240									
	Rotating Speed	rpm	1500	1800	1500	1800	1500	1800	1500	1800	1500	1800	1500	1800	1500	1800		
	Power Factor		1.0															
	No. of Phase		Single Phase (2-wire type) *2						Single Phase (3-wire type)									
	Rating		Continuous															
	Excitation		Brushless (with AVR)															
	No. of Poles		4															
Diesel Engine	Model		KUBOTA D905-K3A		KUBOTA D1403-K3A		KUBOTA V2203-K3A		ISUZU AA-4LE2		ISUZU BB-4JG1T		ISUZU BB-4BG1T		HINO J08C-P			
	Type		Inlined,Swirl Chambered						Inlined,Direct Injected		Inlined,Direct Injected Turbocharged				Inlined,Direct Injected			
	No. of Cylinders, Bore,Stroke		mm		3-72×73.6		3-80×92.4		4-87×92.4		4-85×96		4-95.4×107		4-105×125		6-114×130	
	Piston Displacement		L		0.898		1.393		2.197		2.179		3.059		4.329		7.961	
	Rated Output	PS/rpm	8.7/1500	10.5/1800	13.9/1500	16.9/1800	23.0/1500	27.1/1800	26/1500	32/1800	46.5/1500	56/1800	65.1/1500	77.6/1800	95.2/1500	113/1800		
		KW/min <sup>-1</sup>	6.4/1500	7.7/1800	10.2/1500	12.4/1800	17.0/1500	19.9/1800	19.1/1500	23.5/1800	34.2/1500	41.2/1800	47.9/1500	57.1/1800	70/1500	83/1800		
	Battery×Quantity		55B24L×1		80D26R×1						95D31R×1		120E41R×1		95D31R×2			
	Fuel		ASTM No.2 Diesel Fuel, or Equivalent															
	Fuel Tank Capacity		L		36		62		62		70		100		125		185	
	Fuel Consumption*3		L/h		1.5	1.8	2.3	2.9	3.4	3.9	3.0	3.9	5.6	7.3	7.3	9.1	10.7	13.4
Dimensions,Weight,etc.	Length:L	mm	1230		1390		1540		1540		1900		2200		2750			
	Width:W	mm	650		650		650		680		880		880		1100			
	Height:H	mm	760		900		900		900		1250		1250		1400			
	Dry Weight	kg	379		503		580		564		1040		1180		1860			
	Sound Level	7mdB(A) <sup>*4</sup>	54	57	58	61	61	64	59	60	60	62	61	64	59	63		

\*1 Vehicle mount series are mono-frequency generators.  
\*2 3-wire type is available as option. \*3 Fuel consumption is based on operation at 75% load.  
\*4 Sound level reflects high-speed no-load operation and is calculated by averaging the measurements at four points, each 7 meters from the source.



Direct inquiries to the nearest Denyo distributor or to Denyo Co., Ltd.



**Denyo Co.,Ltd.**  
Head office : 2-8-5,Nihonbashi-horidomecho,Chuo-ku,Tokyo  
103-8566,Japan  
Tel:+81-3-6861-0055 Fax:+81-3-6861-1188  
<http://www.denyo.co.jp>