

**DIESEL GENERATING SETS  
SINGLE PHASE TYPE  
(5.0-40kVA)**

Power Source Technology for the Future

**Denyo**<sup>®</sup>

# **DCA-LSX/ESX** series



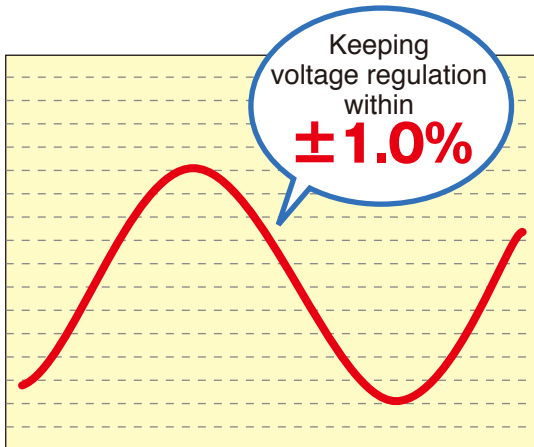
**DCA-6LSX**



**DCA-40ESX**

**Denyo Co., Ltd.**

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



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

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



DCA-6LSX

DCA-10LSX

## 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-30ESX 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).



DCA-30ESX

## 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-40ESX

## 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)

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

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

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

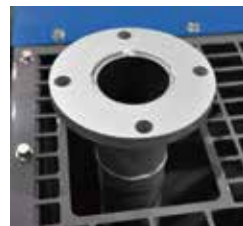


Two Wheel Type Trailer



Four 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.



Keyed fuel tank cap



Keyed rear door



Exhaust gas tale pipe

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

# Specifications

| Item                     |                               | Model                 | Sound-Proof Type                             |           |                     |           |                     |           |  |           |                   |           |
|--------------------------|-------------------------------|-----------------------|--|-----------|---------------------|-----------|---------------------|-----------|--|-----------|-------------------|-----------|
|                          |                               |                       | DCA-6LSX                                     |           | DCA-10LSX           |           | DCA-15LSX           |           | DCA-30ESX  |           | DCA-40ESX         |           |
| Generator                | Frequency                     | Hz                    | 50   | 60        | 50                  | 60        | 50                  | 60        | 50   | 60        | 50                | 60        |
|                          | Output                        | kVA                   | 5.0  | 6.0       | 8.0                 | 10        | 13                  | 15        | 24   | 30        | 33                | 40        |
|                          | Voltage                       | V                     | 50Hz:100,200<br>60Hz:100,110,120,200,220,240 |           |                     |           |                     |           | 50Hz:100/200 ~ 110/220<br>60Hz:100/200 ~ 120/240 |           |                   |           |
|                          | Rotating Speed                | rpm                   | 1500   | 1800      | 1500                | 1800      | 1500                | 1800      | 1500   | 1800      | 1500              | 1800      |
|                          | Power Factor                  |                       | 1.0  |           |                     |           |                     |           |  |           |                   |           |
|                          | No. of Phase                  |                       | Single Phase (2-wire type) *1                |           |                     |           |                     |           | Single Phase (3-wire type)                       |           |                   |           |
|                          | Rating                        |                       | Continuous                                   |           |                     |           |                     |           |  |           |                   |           |
|                          | Excitation                    |                       | Brushless (with AVR)                         |           |                     |           |                     |           |  |           |                   |           |
|                          | No. of Poles                  |                       | 4  |           |                     |           |                     |           |  |           |                   |           |
| Diesel Engine            | Model                         |                       | KUBOTA<br>D905-K3A                           |           | KUBOTA<br>D1403-K3A |           | KUBOTA<br>V2203-K3A |           | ISUZU<br>BB-4JG1T                                |           | ISUZU<br>BB-4BG1T |           |
|                          | Type                          |                       | Inlined, Swirl Chambered                     |           |                     |           |                     |           | Inlined, Direct Injected<br>Turbocharged         |           |                   |           |
|                          | No. of Cylinders Bore, Stroke | mm                    | 3-72×73.6                                    |           | 3-80×92.4           |           | 4-87×92.4           |           | 4-95.4×107                                       |           | 4-105×125         |           |
|                          | Piston Displacement           | L                     | 0.898  |           | 1.393               |           | 2.197               |           | 3.059  |           | 4.329             |           |
|                          | Rated Output                  | PS/rpm                | 8.7/1500                                     | 10.5/1800 | 13.9/1500           | 16.9/1800 | 23.0/1500           | 27.1/1800 | 46.5/1500  | 56/1800   | 65.1/1500         | 77.6/1800 |
|                          |                               | kW/min <sup>-1</sup>  | 6.4/1500                                     | 7.7/1800  | 10.2/1500           | 12.4/1800 | 17.0/1500           | 19.9/1800 | 34.2/1500  | 41.2/1800 | 47.9/1500         | 57.1/1800 |
|                          | Battery × Quantity            |                       | 55B24L×1                                     |           | 80D26R×1            |           |                     |           | 95D31R×1   |           | 120E41R×1         |           |
|                          | Fuel                          |                       | ASTM No.2 Diesel Fuel, or Equivalent         |           |                     |           |                     |           |  |           |                   |           |
|                          | Fuel Tank Capacity            | L                     | 36   |           | 62                  |           | 62                  |           | 100  |           | 125               |           |
| Fuel Consumption*2       | L/h                           | 1.5                   | 1.8  | 2.3       | 2.9                 | 3.4       | 3.9                 | 5.6       | 7.3  | 7.3       | 9.1               |           |
| Dimensions, Weight, etc. | Length:L                      | mm                    | 1230   |           | 1390                |           | 1540                |           | 1900   |           | 2200              |           |
|                          | Width:W                       | mm                    | 650  |           | 650                 |           | 650                 |           | 880  |           | 880               |           |
|                          | Height:H                      | mm                    | 760  |           | 900                 |           | 900                 |           | 1250   |           | 1250              |           |
|                          | Dry Weight                    | kg                    | 379  |           | 503                 |           | 580                 |           | 1040   |           | 1180              |           |
|                          | Sound Level                   | 7mdB(A) <sup>*3</sup> | 54   | 57        | 58                  | 61        | 61                  | 64        | 60   | 62        | 61                | 64        |

\*1 3-wire type is available as option. \*2 Fuel consumption is based on operation at 75% load.

\*3 Sound level reflects high-speed no-load operation and is calculated by averaging the measurements at four points, each 7 meters from the source.



ISO 9001:2015 Certified  
ISO 14001:2015



Colors of products would be different from printed ones of catalogues.  
The Specifications given herein are subject to change without notice.

**Denyo**® The Denyo trademark is widely recognized as a brand, and is a registered trademark in 93 countries and 8 regions.

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