

Power Source Technology for the Future

**Denyo**<sup>®</sup>

# ULTRA SOUNDPROOF DIESEL GENERATING SET



# DCA-60USI



**51 dB(A)**  
7m-1500rpm

**✓ We are particular about low noise and pursue the silence of DCA-US series.**

DCA-60USI employs the low noise engine, additional silencer and specially-designed canopy to achieve extreme silence.

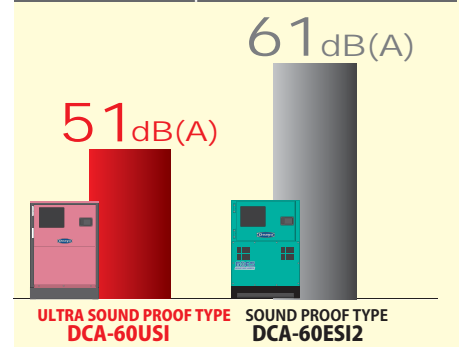
**✓ Quality and Endurance for commercial use**

This high quality generator for commercial uses stronger windings, compared to other products. Due to the low noise level it qualifies especially for loads from inverters or electric devices like computers etc. Excellent starting performance due to the low transient reactance and the unique excitation system.

**✓ Equipped With Clean Engine**

We work on improving environmental performance and has assembled a line of environmentally friendly engine-driven generators. Compliant with the Japanese exhaust gas regulations (Stage II).

Noise comparison (7m/no load)

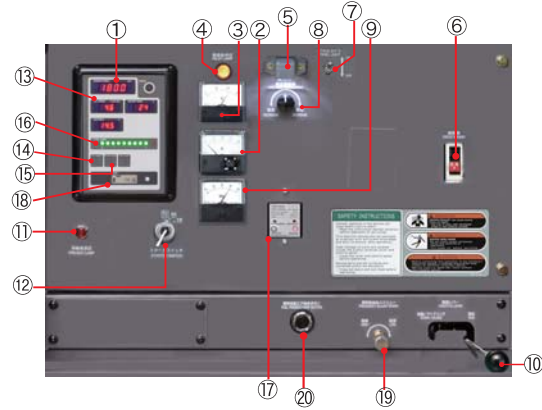
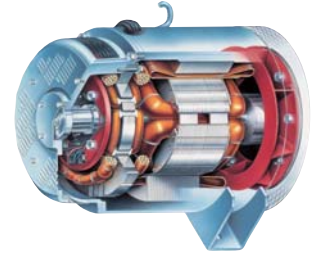


## High Performance

- The innovative excitation system\* fitted on DCA-60USI in conjunction with the AVR and advanced brushless generator, provides fast voltage regulation in response to load variations, enabling use soon after start up. This system provides output stability during load variations.

\*U.S.Patent No.4268788

- Synchronous brushless alternator for minimal wear.
- Designed to function in all climatic conditions.
- Will safely power the most sensitive loads, such as thyristors, invertors and computer systems, without the risk of damage to these loads, thanks to the highlevel electrical characteristics of the generator's output.



### FULLY APPOINTED CONTROL PANELS FOR EASE OF USE AND MONITORING GENERATOR PERFORMANCE.

- |                            |   |
|----------------------------|---|
| ① Indicator (Engine Speed) | ⑪ Preheat Lamp  |
| ② AC Ammeter               | ⑫ Starter Switch  |
| ③ Voltmeter                | ⑬ Indicator<br>(Water Temp., Oil Pressure, Battery charging voltage.) |
| ④ Pilot Lamp               | ⑭ Warning Lamp (Oil Pressure)   |
| ⑤ Panel Light              | ⑮ Warning Lamp (Water Temperature)                                    |
| ⑥ Circuit Breaker          | ⑯ Fuel Level Indicator  |
| ⑦ Panel Light Switch       | ⑰ Earth Leakage Relay   |
| ⑧ Voltage Regulator        | ⑱ Hour Meter  |
| ⑨ Frequency Meter          | ⑲ Frequency Adjust Screw  |
| ⑩ Throttle Handle          | ⑳ Fuel Priming Pump Button  |

## Consideration for Safety

- Provision of Various Protective Devices and Warning Lamps
- A circuit breaker is provided to protect the generator from shorting of the load circuit or an overload.
- An emergency stop device is provided to automatically detect an engine malfunction and shut down the unit, as well as a warning lamp.
- Emergency stop button.



Emergency stop button.

## SPECIFICATION TABLE

MODEL		DCA-60USI	
AC Generator			
Frequency	Hz	50	60
Output Rating	Continuous	50	60
	kVA Standby	55	66
No. of Phases	3-Phase, 4-Wire		
Rated Voltage	V	190-220V (380-440V)	190-240V (380-480V)
Power Factor	0.8(Lagging)		
Voltage Regulation	%	Within ±0.5	
Excitation	Brushless, rotating exciter(With A.V.R)		
Insulation	Class H		
Engine			
Model	Isuzu BB-4BG1T		
Type	Inlined, Direct Injected, Turbocharged		
Output Rating	Ps/rpm	65/1500	77/1800
	kW/min <sup>-1</sup>	47.9/1500	57.1/1800
No. of Cylinders-Bore x Stroke	mm 4-105x125		
Piston Displacement	4.329		
Fuel	ASTM No. 2 Diesel Fuel or Equivalent		
Fuel Consumption	L/h <sup>-1</sup>	8.6	10.5
Lube Oil Sump Capacity	13.2		
Coolant Capacity	16.0		
Battery x Quantity	120E41R x 1		
Fuel Tank Capacity	L	170	
UNIT		DCA-60USI	
Dimensions	Length mm	2200	
	Width mm	950	
	Height mm	1450	
Dry Weight	kg	1310	
Sound Power Level			
7m dB(A) <sup>-2</sup>		51	55

\*1 Fuel consumption is based on operation at 75% load.

\*2 Sound level reflects high-speed no-load operation and is calculated by averaging the measurements at four points, each 7 meters from the source.

The specifications given herein are subject to change without notice.

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

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