

Power Source Technology for the Future

Denyo[®]

ULTRA SOUNDPROOF DIESEL GENERATING SET

DCA-25USIE



51 dB(A)
7m-1500rpm

ECO-BASE



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

DCA-25USIE employs the low noise engine, additional silencer and specially-designed canopy to achieve extreme silence.



Quality and Endurance for commercial use

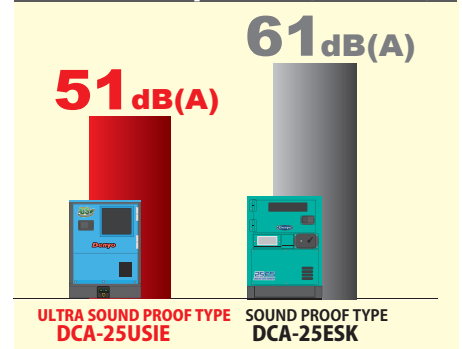
This high quality generator for commercial uses stronger windings, compared to other products. Due to the low noise level it qualifies especially for loads from inverters or electric devices like computers etc. Excellent starting performance due to the low transient reactance and the unique excitation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



Equipped with ECO-BASE

ECO-BASE is a base which has an oil receiver installed inside. You do not need to put an extra tray on the bottom of generator. It is designed to receive fuel, oil and coolant water when they are discharged accidentally.

Noise comparison (7m/no load)



ULTRA SOUND PROOF TYPE
DCA-25USIE

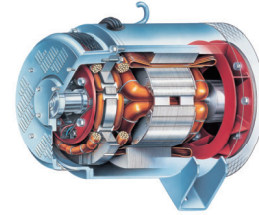
SOUND PROOF TYPE
DCA-25ESK

High Performance

- The innovative excitation system* fitted on DCA-25USIE 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 high level electrical characteristics of the generator's output.



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.

Advanced Function in ECO-BASE

Simple Fluid Level Indicator

Fluid Level Warning Lamp gauges the level of fluid inside the ECO-BASE. It lights up immediately when fluid reaches 50% capacity.



Fluid Level Warning Lamp

Quick and Easy Detachment

ECO-BASE can easily be detached by removing all bolts. It is extremely easy to clean and maintain.

Easy to Drain

Water and oil collected in ECO tank drains easily through large caliber drain valve. Swivel-type oil drain increases the speed of draining compared to conventional type.



Large Caliber



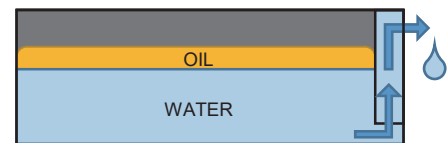
Swivel-type Oil Drain

Spill Proof Re-fueling

The fuel filler door is designed to prevent infiltration of rainwater and fuel spilling during draining of fuel out of the generator.

Water & Oil Separating Structure

ECO-BASE is designed to separate water and oil. Water will be discharge first before oil when ECO-BASE is filled to maximum capacity.



Mechanism of Separating Oil and Water

SPECIFICATION TABLE

MODEL		DCA-25USIE	
AC Generator			
Frequency	Hz	50	60
Output Rating kVA	Continuous	20	25
	Standby	22	27.5
No. of Phases		3-Phase, 4-Wire	
Rated Voltage	V	190-220 (380-440)	200-240 (380-480)
Power Factor		0.8(Lagging)	
Voltage Regulation	%	Within ± 0.5	
Excitation		Brushless, rotating exciter(With A.V.R)	
Insulation		Class F	
Engine			
Model		Isuzu BV-4LE2	
Type		Inlined, Direct Injected	
Output Rating	Ps/rpm	26.0/1500	31.1/1800
	kW/min ⁻¹	19.1/1500	22.9/1800
No. of Cylinders-Bore x Stroke mm		4-85x96	
Piston Displacement		2.179	
Fuel		ASTM No. 2 Diesel Fuel or Equivalent	
Fuel Consumption	L/h ²	3.6	4.5
Lube Oil Sump Capacity		8.7	
Coolant Capacity		6.8	
Battery x Quantity		80D26Rx1	
Fuel Tank Capacity	L	80	
UNIT			
Dimensions	Length mm	1570	
	Width mm	790	
	Height mm	1100	
Dry Weight	kg	710	
Sound Power Level			
7m dB(A) ^{*3}		51	53

*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.

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