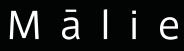
Soundless Generator









Astonishingly quiet

To the Next of "Ultrasilent"

The sound level of the silent generator Mālie* is only 43 to 44 dB. It is said to be as quiet as the sound in a library. In recent years, consideration for sound and noise has been required, such as in residential areas, hospitals, and near schools. Denyo has been continuing to challenge the development of quieter generators even by 1 dB. The silent generator Mālie, which is completed with our original soundproof design technology and many years of expertise, is even quieter than the ultra-low noise type and super ultra-low noise type. Denyo's technology has evolved by one step again.

* Mālie means quiet and calm in Hawaiian.



D C A - 4 5 M Z

Astonishingly quiet

[The sound level comparison of 25kVA class]

Noisy					
Roisy	90dB				Construction Site(90dB)
	80dB				In a train(80dB)
	70dB				Noisy street (70dB)
	60dB	dB*			Washing Machine(60dB)
	50dB	Sound Proof Type DCA-25ESK			Quiet Office(50dB)
	40dB		Ultra Sound Proof Type	dB	Library(40dB)
Quiet	30dB		DCA-25USIE	Soundless Type Malie DCA-25MZ	Midnight in suburbs(30dB)
Quict					

[The sound level comparison of 45kVA class]



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

Three Points That Achieved Overwhelming Quietness

Point1. Reduction of Noise Generated from the Engine

The engine fan, which is the number one cause of the engine noise, has been replaced with two electric fans. In addition, the engine sound is minimized with the installation of a dual pipe muffler (DCA-25MZ) or a muffler one class larger (DCA-45MZ).

Point2. Reduction of Vibration Generated from the Engine

Vibration generated by the engine is also a major cause of noise. Therefore, the noise from the engine is reduced by reviewing the vibration-proof material and suppressing the vibration from the engine as much as possible with the original structure ,such as the vibration-proof support (DCA-25MZ) for the muffle.

Point3. Structure not to leak noise of the generator to the outside as much as possible

The structure of the hood has been completely reviewed, and the engine is surrounded by a frame and covered with a cover from above to create a double structure that prevents noise generated by the engine generator from leaking out as much as possible.

Equipped with High Performance Generator

Power Generators with Less Waveform Distortion and Voltage Fluctuation

With their intensified damper wiring, our generators are less vulnerable to waveform distortion, even when the load applied to the rectifiers changes. They are also highly resistant to negative-sequence current. Moreover, since they can restrict voltage fluctuation, they can resist invertor load, thyristor load, and computer control load. They are suitable for lighting at event sites, precision apparatuses, and measurement equipment.

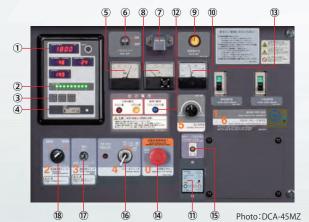
Generators with better Motor Activation

The transient reactance of our generators is low, and with the introduction of original excitation systems, their motor activation performance is better. Moreover, since our generators can reduce instantaneous voltage drops and can restore voltage in a short period of time, they have little effect on the other electric equipment when starting up devices sequentially.

Operability

Operation switches and meters are arranged functionally, and a one-panel system has been adopted so that the equipment is easy to understand and operate even for people who are unfamiliar with it. Every generator is also equipped with a high-visibility digital engine monitor as a standard.

The control panel switches are arranged in accordance with operation procedures, and each switch has a number, so that anybody can switch them on and off safely and without error.



① Indicator Engine Speed, Oil Press., Water Temp., Battery	10 Voltmeter
② Fuel Level Indicator	1) Earth Leakage Relay
(3) Warning Lamp Oil Pressure,Water Temperature,Air Filter,Over Speed	1 Output Voltage Indication Lamp
④ Hour Meter	⁽³⁾ Circuit Breaker(1-Phase,3-Phase)
5 Frequency Meter	Emergency Stop Button
6 Panel Light Switch	Voltage Regulator
⑦ Panel Light	[®] Starter Switch
8 AC Ammeter	1 Speed Change Over Switch
9 Pilot Lamp	¹⁸ Frequency Change Over Switch

Maintenance

DCA-25MZ is equipped with a sliding door.

The front portion of the front panel can be opened and closed widely simply by removing two bolts, making it



clean the radiator.

easy to clean the radiator.

The structure makes it easy to

The opening area can be widened while reducing the maintenance space.

DCA-45MZ is equipped with a double door.



Since it is a double-sided door, workability during maintenance is outstanding.



DCA-25MZ



DCA-45MZ

Safety Device

Earth Leakage Relay

To prevent electric shock, it is recommended that these generators are equipped with earth leakage relays and circuit breakers.



Automatic Safety Controls

The generating set shall be equipped with automatic safety controls which shuts down the engine in the event of abnormal conditions mentioned below.

	Engine shut down will trip	Circuit breaker	Alarm lamp
Low lubricating oil pressure	0	-	0
High jacket water temp.	-	-	0
Over current of generator	-	0	-
Earth leakage	-	0	0
Fuel level failure	-	-	0
Air element blinding	-	-	0
Over speed	0	-	-

Mark ○; Operate Mark -; Not operate

Eco friendly devices

ECO-BASE Body

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.

Water & Oil Separating Structure

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



Eco Base

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



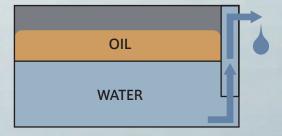
Swivel-type Oil Drain

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



SPECIFICATION TABLE

MODEL		DCA-25MZ		DCA-45MZ		
AC Generator		DCA-2	251012	DCA-	45MZ	
	11-	50	(0)	50	(0)	
Frequency	Hz	50	60	50	60	
Output RatingkVA	Continuous	20	25	37	45	
5	Standby	21	26.3	40.7	49.5	
No. of Phases	o. of Phases		3-Phase,4-Wire			
Rated Voltage V		190-220 (380-440)	200-240 (380-480)	190-220 (380-440)	200-240 (380-480)	
Power Factor		0.8(Lagging)				
Voltage Regulation	ו %	Within ±0.5				
Excitation		Brushless ,rotating exciter (With A.V.R)				
Isulation		Clas	ss F	Class H		
Engine						
Model		lsuzu BV-4LE2		Kubota V3800-DI-T-K3A		
Туре		Inlined, Direct Injected		Direct Injected, Turbocharged, cooled EGR		
Output Rating	Ps/rpm	26/1500	31/1800	53.3/1500	62.7/1800	
	kW/min ⁻¹	19.1/1500	22.9/1800	39.2/1500	46.1/1800	
No.of Cylinders-Bo	re×Stroke mm	4-85×96		4-100×120		
Piston Displaceme	nt L	2.179		3.769		
Fuel		ASTM No. 2 Diesel		Fuel or Equivalent		
Fuel Consumption ^{*2} L/h		3.2	4.2	6.6	8.2	
Lube Oil Sump Capacity L		8.7		13.2		
Coolant Capacity L		9.5		12.1		
Battery×Quantity		80D26R×1		115D31R×1		
Fuel Tank Capacity L		80		170		
UNIT						
	Length mm		1750		2200	
Dimensions	Width mm	1000		1200		
	Height mm		1220		1490	
Dry Weight kg		920		1530		
Sound Power Le	vel					
7m dB(A) 1500/18		43	47	44	49	
	/	1				

*1 Depending on location and area, output voltage may differ from values listed in catalog.

() indicates 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



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

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



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