

ULTRA SOUNDPROOF DIESEL GENERATING SET



DCA-45USK3



49 dB(A)
7m-1500rpm



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

DCA-45USK3 employs the low noise engine, additional silencer and specially-designed canopy to achieve extreme silence.



Quality and Endurance for commercial use

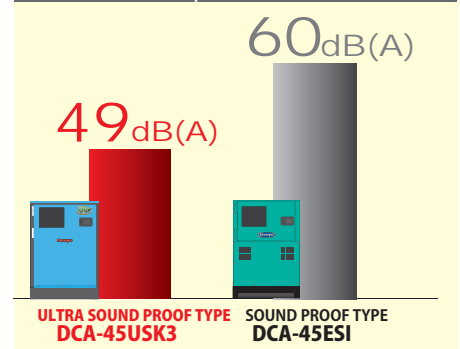
This high quality generator for commercial uses stronger windings, compared to other products. Due to the low noise level it qualifies especially for loads from inverters or electric devices like computers etc. Excellent starting performance due to the low transient reactance and the unique excitation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



"DCA-45USK3" is compliant with Stage III of Japanese exhaust gas regulations by the MLIT Japan.

In line with Japan's exhaust gas reduction regulations, DCA-45USK3 is equipped with super-high-tech clean engine systems, including Cooled Exhaust Gas Recirculation (EGR), which is a technology that reduces NOx generation by returning some of the exhaust gas to the air supply line. A cooler is also installed in the exhaust returning line to cool down exhaust gases.

Noise comparison (7m/no load)

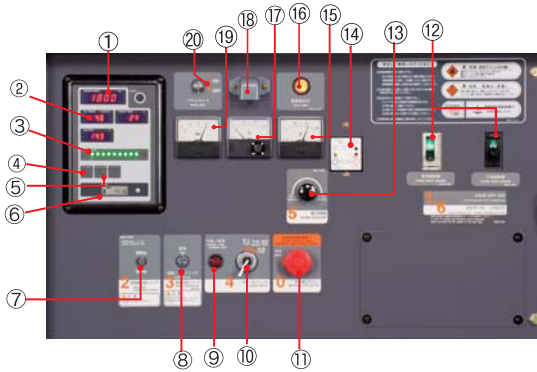


High Performance

- The innovative excitation system* fitted on DCA-45USK3 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 Emergency Stop Button |
| ② Indicator (Water Temp., Oil Pressure, Battery charging voltage.) | ⑫ Circuit Breaker(1-Phase,3-Phase) |
| ③ Fuel Level Indicator | ⑬ Voltage Regulator |
| ④ Warning Lamp (Oil Pressure) | ⑭ Earth Leakage Relay (* Option) |
| ⑤ Warning Lamp (Water Temperature) | ⑮ Voltmeter |
| ⑥ Hour Meter | ⑯ Pilot Lamp |
| ⑦ Frequency Change Over Switch | ⑰ AC Ammeter |
| ⑧ Speed Change Over Switch | ⑱ Panel Light |
| ⑨ Preheat Lamp | ⑲ Frequency Meter |
| ⑩ Starter Switch | ⑳ Panel Light Switch |

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.

SPECIFICATION TABLE

MODEL		DCA-45USK3	
AC Generator			
Frequency	Hz	50	60
Output Rating	Continuous	37	45
	Standby	40.7	49.5
No. of Phases		3-Phase,4-Wire	
Rated Voltage	V	190-220V*1 (380-440V)	200-240V (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		Kubota V3800-DI-T-K3A	
Type		Direct Injected,Turbocharged,cooled EGR	
Output Rating	Ps/rpm	51.7/1500	62/1800
	kW/min ⁻¹	38.0/1500	45.6/1800
No.of Cylinders-Bore xStroke mm		4-100x120	
Piston Displacement		3.769	
Fuel		ASTM No. 2 Diesel Fuel or Equivalent	
Fuel Consumption	L/h ²	6.7	8.5
Lube Oil Sump Capacity		9.4	
Coolant Capacity		13.2	
BatteryxQuantity		115D31R x 1	
Fuel Tank Capacity	L	170	
UNIT			
Dimensions	Length mm	1990	
	Width mm	950	
	Height mm	1300	
Dry Weight		kg	1050
Sound Power Level			
7m dB(A) ^{*3}		49	53

*1 The rated output downs 10% when you set up frequency and voltage at 50Hz/220V.

*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.

The specifications given herein are subject to change without notice.

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