

ULTRA SOUNDPROOF DIESEL GENERATING SET



DCA-150USK3



55 dB(A)
7m-1500rpm



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

DCA-150USK3 employs the low noise engine, additional silencer and specially-designed canopy to achieve extreme silence.



Quality and Endurance for commercial use

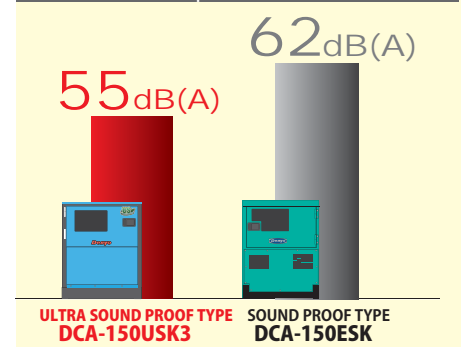
This high quality generator for commercial uses stronger windings, compared to other products. Due to the low noise level it qualifies especially for loads from inverters or electric devices like computers etc. Excellent starting performance due to the low transient reactance and the unique excitation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



"DCA-150USK3" is compliant with Stage III of Japanese exhaust gas regulations by the MLIT Japan.

In line with Japan's exhaust gas reduction regulations, DCA-150USK3 is equipped with super-high-tech clean engine systems, including common-rail type fuel injectors, which inject fuel at the optimum pressure for the load by raising the fuel pressure. as well as 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-150USK3 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

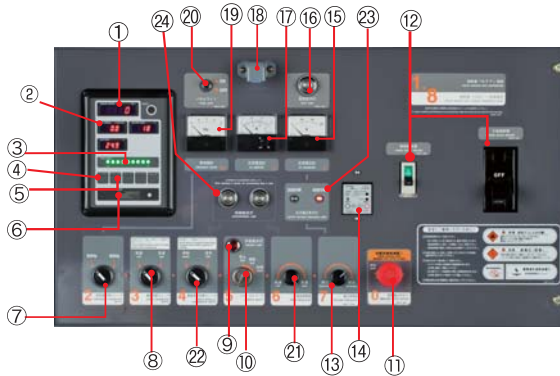
- Synchronous brushless alternator for minimal wear.

- 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) | ⑬ Voltage Regulator |
| ② Indicator (Water Temp., Oil Pressure, Battery charging voltage.) | ⑭ Earth Leakage Relay (* Option) |
| ③ Fuel Level Indicator | ⑮ Voltmeter |
| ④ Warning Lamp (Oil Pressure) | ⑯ Pilot Lamp |
| ⑤ Warning Lamp (Water Temperature) | ⑰ AC Ammeter |
| ⑥ Hour Meter | ⑱ Panel Light |
| ⑦ Frequency Change Over Switch | ⑲ Frequency Meter |
| ⑧ Speed Change Over Switch | ⑳ Panel Light Switch |
| ⑨ Preheat Lamp | ㉑ Speed Regulator |
| ⑩ Starter Switch | ㉒ Single-Parallel Changeover Switch |
| ⑪ Emergency Stop Button | ㉓ Output Voltage Indication Lamp |
| ⑫ Circuit Breaker(1-Phase,3-Phase) | ㉔ Synchronizing Lamp |

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.

Manual Parallel Operation Device

Parallel operation system with unique Denyo AVR equipped with a cross-current compensation circuit (CCRsystem) . This is the most inexpensive system, where no additional equipment is required for the DCA-150USK3.

SPECIFICATION TABLE

MODEL		DCA-150USK3	
AC Generator			
Frequency	Hz	50	60
Output Rating	Continuous	125	150
	Standby	138	165
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 F	
Engine			
Model		Komatsu SAA6D107E-1-C	
Type		Common Rail,Inlined,Direct Injected,Turbocharged	
Output Rating	Ps/rpm	153.6/1500	183.6/1800
	kW/min ⁻¹	113/1500	135/1800
No.of Cylinders-Bore xStroke mm		6-107x124	
Piston Displacement		6.69	
Fuel		ASTM No. 2 Diesel Fuel or Equivalent	
Fuel Consumption	L/h ²	24.0	29.6
Lube Oil Sump Capacity		24.8	
Coolant Capacity		22.0	
BatteryxQuantity		95D31R x 2	
Fuel Tank Capacity	L	250	
UNIT			
Dimensions	Length mm	3150	
	Width mm	1200	
	Height mm	1600	
Dry Weight		kg	2530
Sound Power Level			
7m dB(A) ³		55	58

*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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