

# ULTRA SOUNDPROOF DIESEL GENERATING SET



# DCA-300USK

**DCA-300USK reaches the extreme silence**



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

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

DCA-300USK employs the low noise engine, additional silencer and specially-designed canopy to achieve extreme silence.

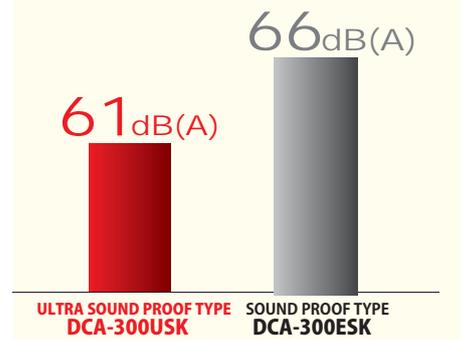
✓ **Quality and Endurance for commercial use**

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)

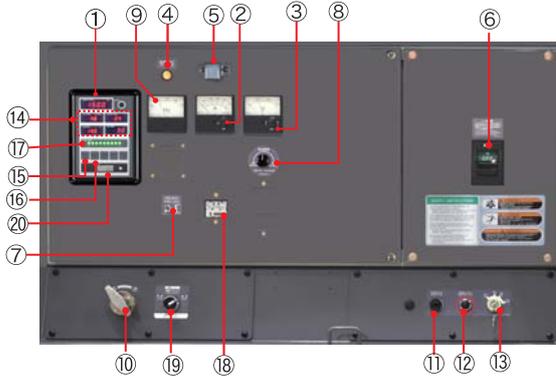
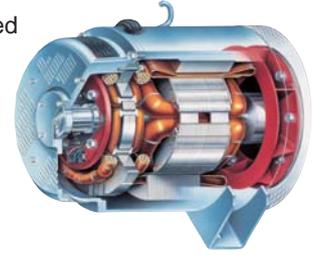


## High Performance

- The innovative excitation system\* fitted on DCA-300USK 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 Emergency Stop Button  |
| ③ Voltmeter                | ⑬ Starter Switch   |
| ④ Pilot Lamp               | ⑭ Indicator<br>(Water Temp., Oil Temp., Oil Pressure, Battery charging voltage.) |
| ⑤ Panel Light              | ⑮ Warning Lamp (Oil Pressure)  |
| ⑥ Circuit Breaker          | ⑯ Warning Lamp (Water Temperature)   |
| ⑦ Panel Light Switch       | ⑰ Fuel Level Indicator   |
| ⑧ Voltage Regulator        | ⑱ Earth Leakage Relay  |
| ⑨ Frequency Meter          | ⑲ Auto.Idling Switch   |
| ⑩ Throttle Handle          | ⑳ Hour Meter   |

## 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-300USK	
AC Generator			
Frequency	Hz	50	
Output Rating kVA	Continuous	270	
	Standby	297	
No. of Phases	3-Phase, 4-Wire		
Rated Voltage	V	190-220V, 380-440V	
Power Factor	0.8(Lagging)		
Voltage Regulation	%	Within ±0.5	
Excitation	Brushless, rotating exciter(With A.V.R)		
Insulation	Class F		
Engine			
Model	Komatsu SAA6D125E-2-B		
Type	Inlined, Direct Injected, Turbocharged, Aftercooled		
Output Rating	Ps/rpm	316	
	kW/min <sup>-1</sup>	232	
No. of Cylinders-Bore x Stroke mm	6-125x150		
Piston Displacement	L	11.04	
Fuel	ASTM No. 2 Diesel Fuel or Equivalent		
Fuel Consumption	L/h <sup>-1</sup>	39.0	
Lube Oil Sump Capacity	L	62	
Coolant Capacity	L	44.4	
Battery x Quantity	145G51x2 or 155G51x2		
Fuel Tank Capacity	L	490	

UNIT		
Dimensions	Length mm <sup>2</sup>	4290(4100)
	Width mm	1600
	Height mm	1900
Dry Weight	kg	5010
Sound Power Level		
7m dB(A) 1500 rpm(min <sup>-1</sup> ) <sup>3</sup>	61	

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

\*2 Shown unit lengths are with air duct rear cover. ( without air duct rear cover)

\*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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