

**SOUNDPROOF DIESEL ENGINE DRIVEN GENERATING SET**

# **DCA-800SPK2**

**Realizing high performance 700/800kVA(50/60Hz) & low emission which can clear exhaust gas regulations**



### **High-performance Brushless Power Generator Installed**

This power generator has lower waveform distortion and higher reverse tolerance against rectifier loads realized by improving damper windings. Less instantaneous voltage drop and shorter voltage recovery time lowers the impact on other electric devices in sequential operations.



### **An electronic governor control system for realizing lower emissions**



### **Voltage Regulation within $\pm 0.5\%$**



### **Frequency Regulation within 5.0% through no load to full load**

## High Performance

- The innovative excitation system\* fitted on DCA-800SPK2 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.

## Manual Parallel Operation Device

Parallel operation system with unique Denyo AVR equipped with a cross-current compensation circuit (CCR system). This is the most inexpensive system, where no addition equipment is required for DCA-800SPK2.

In addition, a variety of optional devices are available to change from manual parallel operation to the desired type of automatic operation.



## Green & Clean

DCA-800SPK2 meets EPA Tier 2 emissions requirements, and manages well with a high level restriction of exhaust gas.

## Specifications

### DCA-800SPK2

#### AC Generator

Frequency	Hz	50	60
Output Rating kVA	Continuous	700	[720] 800
	Standby	770	[792] 880
No. of Phases	3-Phase, 4-Wire		
No. of Pole	4		
Rated Voltage	V	190-220 / 380-440	190-240 / 380-480
Power Factor	0.8(Lagging)		
Voltage Regulation	%	Within ±0.5	
Excitation	Brushless, rotating exciter with AVR		
Insulation	Class F		

\*1 [ ] indicates at 190V or 380V

\*2 Fuel consumption is based on operation at 75% load.

\*3 Shown unit lengths are with visor. [without visor]

Sound Power Level is based on operation at 7meters from machine (No load, Average value in 4 directions.)

● In line with our policy of continuous development, we reserve the right to change specification without notice.

● Always follow the Operation Manual when storing, transporting, and operating the machine.

## Safety Device

- 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 shutdown the unit, as well as a warning lamp.

	Engine shut down	Circuit breaker will trip	Warning Lamp
Oil pressure reduction	○	○	○
High jacket water temp.	○	○	○
Over current of generator	-	○	-
Earth leakage	-	○	○
Fuel level failure	-	-	○
Battery fluid level failure	-	-	○
Oil filter blinding	-	-	○
Air element blinding	-	-	○
Over speed of engine	○	○	-
Revers power	-	○	-

Mark ○; Operate Mark -; Not operate

## Excellent access for maintenance

- Large fuel gauge is fitted for simple viewing.
- For major engine overhauls, the bonnet can be simply unbolted, which allows full access to the engine.

#### Diesel Engine

Model	Komatsu SAA6D170E2-3	
Type	Direct Injected Turbocharged, Aftercooled	
Rated Output kW/min <sup>-1</sup>	613/1500	752/1800
No. of Cylinders-Bore x Stroke mm	6-170x170	
Displacement L	23.15	
Fuel	ASTM No. 2 Diesel Fuel or Equivalent	
Fuel Consumption* <sup>1</sup> L	110	130
Fuel Tank Capacity L	490	
Lube Oil Capacity L	141	
Coolant Capacity L	150	
Battery x Quantity	190H52x4	

#### Dimensions

Dimensions	Length mm	6110(5500)* <sup>2</sup>
	Width mm	1950
	Height mm	2500
Dry Weight	kg	10730

#### Sound Power Level

7mdB(A) 1500/1800 min <sup>-1</sup>	69.9* <sup>3</sup>	73.5* <sup>3</sup>
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Direct inquiries to the nearest Denyo distributor or to Denyo Co., Ltd.

 **Denyo Co., Ltd.**

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