

SOUNDPROOF DIESEL ENGINE DRIVEN GENERATING SET

DCA-600PP

High Quality coexists with Reasonable Price .



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



Denyo Co., Ltd.

High Performance

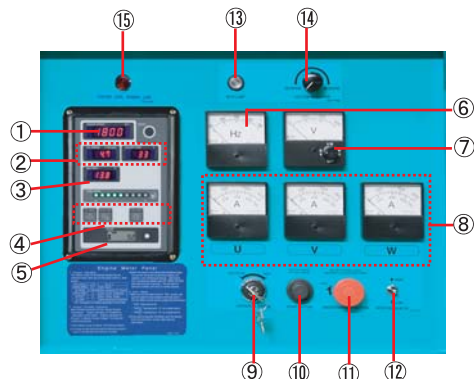
- The innovative excitation system* fitted on DCA-600PP in conjunction with the AVR and advanced brushless generator, provides fast voltage regulation in response to load variations, enabling use soon after start up. This system provides output stability during load variations.

*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.



Control panel



DCA-600PP is fully appointed advanced control panel. It offers high quality basic functions, allowing easy and reliable operation of your generating set.

- | | | |
|--|---------------------------------------|-----------------------------|
| ①Engine speed indicator | ⑤Integrating time meter | ⑪Emergency Stop Button |
| ②Oil pressure, water temp. indicator | ⑥Frequency meter | ⑫Speed Regulator |
| ③Battery charging voltage | ⑦Volt meter (with change-over switch) | ⑬Pilot Lamp |
| ④Warning lamp
• OIL PRESS
• WATER TEMP
• OVER SPEED | ⑧AC Ammeter(U, V, W) | ⑭Voltage Regulator |
| | ⑨Operation Switch | ⑮Coolant level warning lamp |
| | ⑩Starter Button | |

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.

Excellent access for maintenance

- All daily maintenance requirements can be performed from one side of the machine. The large doors gives you full access to the engine.
- 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.



Specifications

Model		DCA-600PP		
AC Generator				
Frequency	Hz	50	60	
Output Rating	Continuous	550	600	
	kVA(kW)	Standby	605	660
No. of Phases		3-Phase,4-Wire		
No. of Poles		4		
Rated Voltage(50/60Hz)		V	380-440/380-480*1	
Power Factor(lagging)		0.8		
Voltage Regulation		%	Within ± 0.5	
Excitation		Brushless ,rotating exciter with AVR		
Insulation		Class F		
Ambient Conditions				
The generating set should meet the following conditions:				
①Ambient temperature : -5℃ or higher, 50℃*2 or lower				
②Altitude : Up to 1000m above sea level				
③Relative humidity :85% or lower				
Diesel Engine				
Model		Perkins 2806A		
Type		Vertical in-line,Direct Injected, Turbocharged, Aftercooled		
Rated Speed		min ⁻¹	1500/1800	
Rated Output		kW(PS)	522(710)/543(738)	
No. of Cylinders-Bore ×Stroke		mm	6-145×183	
Displacement		L	18.13	
Fuel		Diesel Fuel(ASTM No.2 or equivalent)		
Fuel Tank Capacity		L	490	
Lube Oil Capacity		L	62	
Coolant Capacity		L	61	
Battery × Quantity		12V-210H52 × 2		
Dimensions and Weight				
Dimensions	Length	mm	5100	
	Width	mm	1725	
	Height	mm	2250	
Dry Weight		kg	6340	
Sound Level				
7m dB(A) 1500/1800 rpm(min ⁻¹)		76/78*3		

* 1 190-220/190-240V type is available as option.

* 2 If ambient temperature is higher than 45°C , Power output derate will occur.

* 3 Sound level reflects high-speed 100% load operation and is calculated by averaging the measurements at four points, each 7 meters from the source.

- 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.

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

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