NEW PRODUCTS INFORMATION

Denyo

EASY SOUNDPROOF DIESEL ENGINE DRIVEN GENERATING SET

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
- igoplus Voltage Regulation within $\pm 0.5\%$
- Frequency Regulation within 5.0% through noload to full load

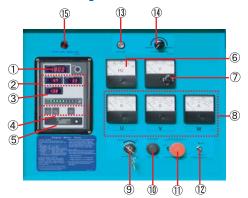


High Performance

- •The innovative excitation system* fitted on DCA-500PP 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-500PP is fully appointed advanced control panel.It offers high quality basic functions, allowing easy and reliable operation of your generating set.

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

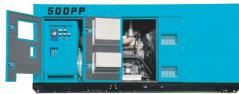
Safety Device

- •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 acces 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

AC Generator					
Frequency		Hz	50	60	
Output Rating kVA(kW)	Continuous		450	500	
	Standby		495	550	
No. of Phases		3-Phase,4-Wire			
No. of Poles			4		
Rated Voltage(50/60Hz) V		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			
	<u> </u>				

Ambient Conditions

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The generating set should meet the following conditions:

①Ambient temperature : -5°C or higher, 50°C*2 or lower ②Altitude : Up to 1000m above sea level

③Relative humidity :85% or lower

- * 1 190-220/190-240V type is avaiable as option.
- $\star\,2\,$ If ambient temperature is higher than 45 °c, Power output derate will occer.
- *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.

DCA-500PP Diesel Engine

Model		Perkins 2506A
Туре		Vertical in-line,Direct Injected, Turbocharged, Aftercooled
Rated Speed	min ⁻¹	1500/1800
Rated Output	kW(PS)	396(538)/435(591)
No. of Cylinders-Bore ×Stro	ke mm	6-137×171
Displacement	L	15.2
Fuel		Diesel Fuel(ASTM No.2 or equivalent)
Fuel Tank Capacity	L	490
Lube Oil Capacity	L	58
Coolant Capacity	L	62
Battery × Quantity		12V-160Ah × 2

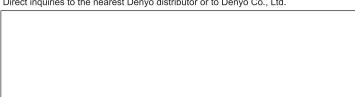
Dimensions and Weight

Dimensions	Length	mm	4950
	Width	mm	1500
	Height	mm	2100
Dry Weight		kg	5850

Sound Level| 7m dB(A) 1500/1800 rpm(min⁻¹) | 72/76*3

- 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.





Head office:2-8-5,Nihonbashi-horidomecho,Chuo-ku,Tokyo 103-8566,Japan Tel:+81-3-6861-1111 Fax:+81-3-6861-1181 http://www.denyo.co.jp