

Soundproof Diesel Engine DCA 45ESI





DESERT MACHINERY

آليات الصحراء

SPECIFICATIONS

MODEL	DCA-45ESI		
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Alternator

Frequency	Hz	50	60
Rated Output (kVA)	Continuous	37	45
	Standby	38.9	47.3
Rated Voltage (V)	② Dual Voltage		
	190-220V, 380-440V	190-240V, 380-480V	
Power Factor	0.8		
No. of Phase	3 Phase, 4 wire		
Exciting system	Brushless, Rotating Exciter (with A.V.R)		

Diesel Engine

Manufacturer & Model	Isuzu BB-4JG1T		
Type	In lined, Direct Injected, Turbocharged		
Bore x stroke	4-95.4x107		
Displacement (L)	3.059		
Rated Output (kw/min-1)	34.2/1500 rpm	41.2/1800 rpm	
Fuel	ASTM No. 2 Diesel Fuel or Equivalent		
Fuel Tank Capacity (L)	100		
Fuel Consumption (L/H)	6.3	7.8	
Battery	95D31Rx1		

Dimensions and Weight

Length (mm)	1900		
Width (mm)	880		
Height (mm)	1250		
Dry Weight (kg)	960		

Sound Level

7m dB (A) 1500/1800rpm (min ⁻¹)	60	62
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*1 Rated Voltage Classification

Frequency	50Hz	60Hz
①	190-220V	200-240V
②	190-220V	190-240V
	380-440V	380-480V
③	380-440V	380-480V

*2 Fuel Consumption is based on operation at 75%

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

*4 Depending on location and area, output voltage may differ from values listed in catalog

The specifications given herein are subject to change without notice.



PERFORMANCE FEATURES

HIGH PERFORMANCE

The Denyo generating systems guarantees the following levels of performance:

TEMPERATURE: 100°C temperature rise at 40°C ambient (JEC2130)

VOLTAGE REGULATION: Within $\pm 0.5\%$ (except DCA 400SP)

FREQUENCY REGULATION: Within 5.0% through no load to full-load.

INSULATION RESISTANCE

-Higher than 3 Mega-ohms, measured between armature windings and earth, field windings and earth, field control circuit and earth.

- The innovative excitation system* fitted on all models, 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.

- Synchronous brushless alternator for minimal wear.

-Designed to function in all climatic conditions.

-Will safely power the most sensitive loads, such as thyristors, investors and computer systems, without the risk of damage to these loads, thanks to the high level electrical

characteristics of the generator's output.

ECONOMICAL PERFORMANCE

-Easy starting and quick response.

-Utilizing highly reliable diesel engines with low fuel consumption, manufactured by Japan's leading engine manufacturers.

-Uninterrupted generator operation for up to 12 hours under 75% load.

UNSURPASSED FLEXIBILITY

To meet today's varying needs successfully, your equipment must be as flexible as you are. The Denyo DCA Series generator range provides you with the flexibility to get the job done simply and economically, without any delays.

TRUE HEAVY-DUTY PERFORMANCE

For a particular job, you may need that extra power from generator. With the DCA Series, the standby power rating (110% or 105% load except DCA-610SPM) can be used continuously for 1 hour in every 8 hours of continuous operation. This extra power performance of Denyo generators means you can get the job done, without the inconvenience of using another generator.

PARALLEL OPERATION FEATURE

time to time, at a construction site, mine site or in other situations, large temporary power supply is required for a particular

job. To meet this requirement Denyo's DCA Series generators incorporate a built-in parallel operation drive system, allowing plant on-site, without the need to procure any other equipment.

DUAL VOLTAGE

For companies that operate internationally or have motors that require power at different voltages, a different generator is usually required for each voltage setting. However, the DCA Series generators are equipped with a dual voltage system, so one generator can be used to power motors with different voltage settings. An extremely convenient feature.

ALL MODELS CAN RUN AT 50Hz/60Hz

Simply adjust the engine speed on the control panel to use a DCA Series generator at either 50Hz or 60Hz.

EXTREMELY QUIET OPERATION

In urban areas and at the worksite, there is an ever increasing demand for reduced noise pollution. In response to these concerns, Denyo has pioneered and a soundproof and super soundproof range of generators. The DCA Series generators are extremely quiet when operating at full load, even though all soundproof models are compactly designed. Check the specifications for the sound level of each model.

