



# DNY450

## Rating Definition

### Standby Power - Model DNY450

These ratings are applicable for supplying continuous electrical power (at variable load in event of a utility power failure)

No overload is permitted on these ratings.

the engine performance corresponds to ISO 3046, BS 5514 and DIN6271

**Note:** Standard reference conditions 25°C (77°F) Air inlet Temperature.

All engines performance data based on the adobe metioned maximum continuos ratings.

Fuel consumption data at full load with diesel fuel with specific gravity of 0.85.

## Output Ratings

Frequency	Models	Voltage	kVA	kWe
60 Hz	DNY450	440-220V	560	450

## Technical data

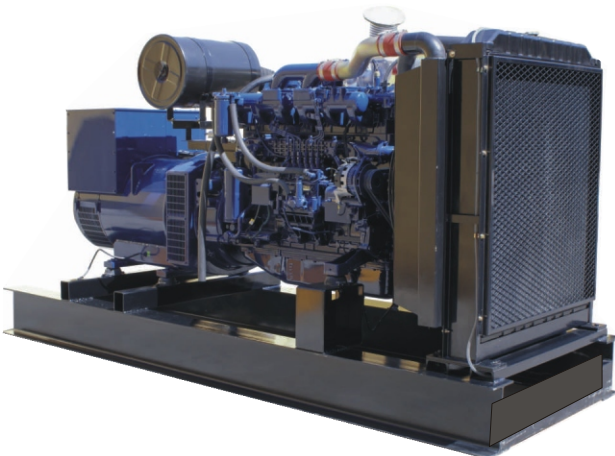
<b>Engine Model:</b>	P158LE-S
<b>Number of Cylinders:</b>	8 In "V"
<b>Bore/Stroke:</b>	128(5.04) x 142(5.59) mm(in)
<b>Compression ratio:</b>	15:01
<b>Aspiration:</b>	turbo & intercooled (air to air)
<b>Displacement:</b>	14.618(892.0) lts/in
<b>Fuel consumption:</b>	118.6 lts - 100% load
<b>Frequency:</b>	60 Hz
<b>Engine Speed:</b>	1800 rpm
<b>Pressure system:</b>	Max. 0.9 kg/cm <sup>2</sup> (12.8 psi)
<b>Water Flow:</b>	508 lts/min.
<b>Heat Rejection to Coolant:</b>	41.7 kcal/sec
<b>Air Flow:</b>	34.7 m <sup>3</sup> /min
<b>Exhaust Gas Flow:</b>	94.4 m <sup>3</sup> /min
<b>Exhaust Gas Temp:</b>	530°C

### Max. Permissible Restrictions

<b>Intake System:</b>	220mmH <sup>2</sup> O initial - 635mmH <sup>2</sup> O final
<b>Exhaust System:</b>	600mmH <sup>2</sup> O max
<b>Generating Set Model:</b>	<b>DNY450</b>
<b>Alternator Model</b>	HCI534C
<b>Insulation System:</b>	Class H
<b>Control System:</b>	Separately excited by PMG
<b>AVR</b>	MX341

## Dimensions and Weights

Length:cm	Width cm	Heigth:cm	<b>DNY450</b>
<b>345</b>	<b>140</b>	<b>188</b>	Dry: 2745 kgs Wet: 3056 kgs



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