



VNE450 - VNY400

Rating Definition

Prime Power - VNE450

Rating corresponds to ISO Standard Power for continuous operation. It is applicable for supplying electrical power at variable load for an unlimited number of hours instead of commercially purchase power. A 10% overload capability for governing purpose is available for this rating .

Standby Power - Model VNY400

Is applicable for supplying standby electrical power at variable load in areas with well establish electrical networks in the event of normal failure.

No overload capavility is available for this rating 1hp = 1kW-1.36

Note: the engine performance corresponds to ISO3046, BS5514 and DIN 6217.

Power output guaranteed within 0 to +2% att rated ambient conditions at delivery, Ratings are based on ISO8528.



Output Ratings				0.8 p.f)
Frequency	Models	Voltage	kVA	kWe
50 Hz	VNE450	380-415V	409 (125/40 ris \varnothing)	327
60 Hz	VNY400	440-220V	500 (163/27 ris \varnothing)	400

Technical data		
Engine Model:	TAD1242GE	
Number of Cylinders:	6 In-line	
Bore:mm (in)	131 (5.16)	
Stroke:mm (in)	150 (5.91)	
Displacement:ts(in³)	12.13 (740.2)	
Compression ratio:	17.5:1	
Performance	1500rpm-PRIME	1800rpm-Standby
With Fan:kW(hp)	352 (479)	430 (585)
Lubrication system	1500rpm-PRIME	1800rpm-Standby
Oil consumption:lt/h(gal/h)	0.12 (0.032)	0.15 (0.040)
Total oil incl filters:l(ter)	35	35
Fuel system	1500rpm-PRIME	1800rpm-Standby
100% load g/kWh(lb/hph)	198 (0.321)	203 (0.329)
Intake & exhaust system	1500rpm-PRIME	1800rpm-Standby
Air consum.:m³/min (cfm)	23.5 (830)	29.0 (1024)
Max.restriction:kP (In wc)	5 (20.1)	5 (20.1)
Heat rejection to exhaust:W (BTU/min)	250 (14271)	306 (17402)
Exhaust gas temp:°C (°F)	490 (914)	490 (914)
Max.back-pressure:kP (In wc)	10 (40.2)	10 (40.2)
Exhaust gas flow:m³/min (cfm)	58 (248)	72 (2543)
Cooling system	1500rpm-PRIME	1800rpm-Standby
Heat rejection rad from engine: kW (BTU/min)	17 (967)	20 (1137)
Fan consumption:kW(hp)	9 (12)	15 (20)
Generating Set Model:	VNE450	VNY400
Alternator Model	HCI534C	HCI434F
Insulation System:	Class H	
Control System:	Self exited	
AVR	MX341	

Dimensions and Weights			
Length:cm	Width cm	Heigth:cm	VNE450
315	111	166	Dry: 2814 kgs
			Wet: 2889 kgs
			VNY400
			Dry: 2711 kgs
			Wet: 2786 kgs

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