



EGE100P

Powered by:

PERKINS 1104C-44TAG2

100 Kva @ 50Hz

.....all about energy

Generator Set Performance			
		P.R.P (1)	Standby (2)
Rated Output	KVA	100	110
Active Power Output @ phi=0.8	KW	80	88
Rated Speed	r.p.m	1500	
Standard Voltage	V	400 / 230	
Voltage Available	V	380/220 - 415 / 240	
Phases		3	
Frequency		50Hz	
Circuit Breaker		160	

(1) Prime Power (P.R.P) - ISO 8528: Prime power is the maximum power available during a variable power sequence, which may be run for an unlimited number of hours per year, between stated maintenance intervals. The permissible average power output during a 24 hours period shall not exceed 80% of the prime power, 10% overload available for governing purpose only.

(2) Max-Standby Power - ISO 3046: Power available for use at variable loads for limited annual time (500hr), within the following limits of maximum operating time: 100% loads 25hr per year - 90% loads 200hr per year NO overload available. Applicable in case of failure of the main in areas of reliable electrical network.

Power reduction according to DIN ISO 3046, Standard values: Above 100m altitude approx 1% per 100m. Above 25°C (77° F) approx. 4% per 10°C (50° F).

Engine Specification		
Rated Output		
Manufacturer		Perkins
Engine Model		1104C-44TAG2
4stroke Diesel Engine - Combustion System		Direct Injection
Aspiration Type		Turbocharged; air to air charge cooled
Cylinders , number and disposition		4 - inline
Bore x Stroke	mm	105 x 127
Total Displacement	L	4.4
Cooling System		Water
Lub Oil Specifications		15W40 to ACEA E3 or API CH4
Compression Ratio		18.2 : 1
Fuel Consumption (at 100% load)	L/Hr	22.6
Specific Oil Consumption (at full load)	%	0.15
Lub Oil Maximum capacity	L	8
Total Coolant Capacity	L	12.6
Speed Governor	Type	Electrical
Electric Circuit Voltage	V	12V
Starting System		Electric
Engine Derating		1.0
Cooling Fan	Type	Mechanical
Air Filter	Type	Dry

The above performance data are valid as per the following spec:

-Diesel Fuel is according to BS2869 Class A2 or equivalent

-The coolant should be 50% antifreeze and 50% fresh water

Synchronous Generator*		
Poles	No.s	4
Terminals	No.s	12
Revolution Speed		1500 rpm
Insulation	class	H
Enclosure (according to IEC-34-5)		IP23
Maximum Admitted Overload		10% for 1 hour every 12 hours of running
Alternator Derating		1.0
Voltage Regulation		AVR (Electronic)
Steady Voltage Precision		within±1.5% from no load to full loading with cos 0.8

*Alternator used by MANLIFT Gensets meet the standard requirements.

Generator Set Options and Accessories		
Engine	Alternator	Generator Set
■ Lub oil heater	■ Anti-condensation heater	■ Battery charger
■ Water jacket heater	■ PMG excitation	■ Enclosure: aluminum, steel
■ Electronic governor	■ Single phase	or weather protective
		■ Export box packing
		■ Main line circuit breaker
Fuel System	Cooling System	■ AMF panel
■ 12 hours dual wall sub-base tank	■ 50C (122F) ambient cooling	■ Digital panel
■ 24 hours dual wall sub-base tank	■ Remote radiator cooling	■ Automatic transfer switches
■ Single wall sub-base tank		■ Synchronizing panel
■ External fuel tank		■ Extended warranty up to 5 years

Generating Set Transport Data		
Weight And Dimensions OPEN GENSET		
Length	m - ft	2.05 - 6.72
Width	m - ft	0.75 - 2.36
Height	m - ft	1.43 - 4.71
Dry Weight (With Standard Accessories)	kg - lb	1,160 - 2,552

Specifications subject to change without notice

version 1



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