



## EGE50P

Powered by:

**PERKINS 1103A-33TG1**

50 Kva @ 50Hz

.....all about energy

Generator Set Performance			
		P.R.P (1)	Standby (2)
Rated Output	KVA	45	50
Active Power Output @ phi=0.8	KW	36	40
Rated Speed	r.p.m	1500	
Standard Voltage	V	400 / 230	
Voltage Available	V	380/220 - 415 / 240	
Phases		3	
Frequency		50Hz	
Circuit Breaker	A	63	

(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		1103A-33TG1	
4stroke Diesel Engine - Combustion System		Direct Injection	
Aspiration Type		Turbo	
Cylinders , number and disposition		3 - inline	
Bore x Stroke	mm	105 x 127	
Total Displacement	L	3.3	
Cooling System		Water	
Lub Oil Specifications		15W40 to ACEA E3 or API CH4	
Compression Ratio		17.25 : 1	
Fuel Consumption (at 100% load)	L/Hr	10.7	
Specific Oil Consumption (at full load)	%	0.15	
Lub Oil Maximum capacity	L	8.3	
Total Coolant Capacity	L	10.2	
Speed Governor	Type	Mechanical	
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
<b>Fuel System</b>	<b>Cooling System</b>	■ 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	1.88 - 6.16
Width	m - ft	0.75 - 2.46
Height	m - ft	1.42 - 4.67
Dry Weight ( With Standard Accessories)	kg - lb	890 - 1.958

Specifications subject to change without notice

version 1



**Dubai Head Office:**

PO. Box 213645, Dubai, U.A.E.  
Tel: +971 4 885 6065  
Fax: +971 4 885 6034  
info@manliftgroup.com

**Abu Dhabi Branch:**

PO. Box 95024, Abu Dhabi, U.A.E.  
Tel: +971 2 550 2621  
Fax: +971 2 550 2623  
abudhabi@manliftgroup.com

**Qatar Branch:**

PO. Box 23135, Doha, Qatar  
Tel: +974 351 0131  
Fax: +974 466 6436  
qatar@manliftgroup.com