

BI-55 -T

Diesel

Power 50 kVA

Three-phased

Watercooled

400 V / 1.500 r.p.m.

Generating Set Performance	50 Hzs	
SERVICE	Continuous Service	Intermittent Service
Rated output	50 kVA	55 kVA
Active Power output *	40 kW	44 kW
Rated speed	1.500 r.p.m.	
Standard Voltage	400 V	
Voltage available	-	

Performance data refers to Standard Reference Conditions of ISO 8528: +25 °C, 100m ALT, relative humidity 30%.

During running-in period the output increases by approx. 5% which is taken into consideration at delivery.

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

* Considering $\cos \phi = 0,8$

Prime Mover Performanc	1.500 r.p.m.	
SERVICE	Continuous Service	Intermittent Service
Rated output	46,8 kW	51,5 kW
Manufacturer	IVECO MOTORS	
Engine model	F32 TM 1A	
4 stroke Diesel Engine - Injection type	Direct	
Aspiration type	Turbocharged	
Cylinders, number and arrangement	4 - L	
Bore x stroke	99 x 104 mm	
Total displacement	3,2 L	
Cooling system	Watercooled (50% parafllu 11)	
Lube oil specifications	ACEA E3 - E5	
Specific fuel consumption (75% load)	9,8 l / h	
Specific oil consumption	0,5% max. of fuel consumption	
Compression ratio	17 : 1	
Lube oil maximum capacity	10,5 l	
Lube oil minimum capacity	N.D.	
Speed governor	Mechanical	
Air filter	Dry	

Prime Power (P.R.P.) - The prime power is the maximum power available with varyng loads for an unlimited number of hours. The average power output during a 24h period of operation must no exceed 80% of the declared prime power between the prescribed maintenance intervals and at standard environmental conditions.

A 10% overload is permissible for 1 hour every 12 hours of operation.

Stand by Power - Is the maximum power available for a period of 500 hours/year with a mean load factor of 90% of the declared stand-by power.

No kind of overload is permissible for this use.

Synchronous Generator *	
Póles	4
Winding connections (standard)	Star - Serie
Frame mounting	SAE 3 / 11" 1/2
Insulation	H
Enclosure (according to IEC-34-5)	IP 23
Phases	3 + N
Voltage regulator	A.V.R. (electronic)
Steady voltage pricision	within $\pm 1,5\%$ form no load to full loading with $\cos\phi=0,8+1$

* Standard BENZA generators are in accordance with: IEC 34-1; CEI 2-3; VDE 0530; BS 4999-5000:NF 51-100, 11

Generating Set installation data	1.500 r.p.m.
EXHAUST SYSTEM	
Max. exhaust temperature at full load	548° C
Exhaust gas flow	0,069 Kg/s
Heat rejected to exhaust	493 Kcal/Kwh
Maximum allowed back pressure	5 KPa
AIR REQUIREMENT	
Air requirement for combustion at 100% load / rated speed	183 m ³ /h
ELECTRIC STARTING SYSTEM	
Starting motor output	3 kW 4,08 CV
Minimum recommended battery capacity	1 x 100 Ah
Auxiliary voltage	12 Vcc
LIQUID CAPACITY	
Lube oil system including sump, filters, etc	-
FUEL TANK CAPACITY	
Open skid	-
Soundproofed	130 L
NOISE LEVEL	
Noise level - LW (A) <small>2000/14/CE</small>	N.D.
Noise pression at 7 m - LPS	N.D.
Noise pression at 10 m - LPS	N.D.

Generating Set transport data	
WEIGHT AND DIMENSIONS OPEN SKID GENSET	
Length	-
Width	-
Height	-
Shipping volume seaworthy (standard supplier)	-
Dry weight (with standard accessories)	-
WEIGHT AND DIMENSIONS SOUNDPROOFED	
Length	2,30 m
Width	1,05 m
Height	1,40 m
Shipping volume seaworthy (standard supplier)	3,38 m ³
Dry weight (with standard accessories)	1.296 kg

Weights and dimensions based on standard products.



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