

RG80 80KVA Military Generator



RG80 80KVA Military Generator

Generators are the systems which turn mechanical energy into electric energy and they provide continuous power requirements and energy needs of Turkish Armed Forces and law enforcement forces during battle with high efficiency at NATO standards. Generators are grouped according to their dimensions and types. Nero Industry can design, test and produce special sized generators between 2 KW and 1000 KW conforming to NATO Military standards. It produces super silent generators with 65 db sound level at 7 meters. Dual type generators which backup each other and also communicate, are other equipment of generator family. It creates solutions for the requirements of law enforcement forces as mobile and stable.

ADVANTAGES RG80 GENERATOR CONTAINS:

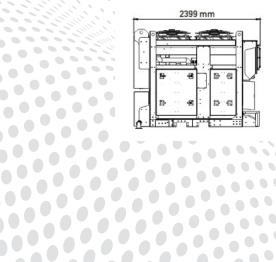
- The generator has the capability to get activated automatically in case the mains electricity coming to equipment shelter is cut.
- Military model AGM battery is used on RG80.
- Generator battery provides at least 40Ah capacity. (Battery has the capacity to activate the generator at least 3 times at -32°C ambient temperature using pre-heater.)
- RG80 has Diesel engine, F54, F34, F65 operate with fuel.
- Control board, has IP67 protection standard.
- Generator has the capability to operate at full-load for at least 8 (eight) hours by its own tank without any refuel.
- It enables 220 VAC/50 Hz single-phase output.
- The connectors on the generator are produced in accordance with MIL-DTL-38999 and/or VG95234 standards.
- 3 years of Guaranty.

GENERAL SPECIFICATIONS—————	
Output Voltage	380 VAC
Continuous Power	62,5 KVA
Output Power	80 KVA
Maximum Ampere	95 A
Operating Temperature	-32°C - +55°C
Storage Temperature	-40°C - +60°C
Integrated Cooling System	Water Cooled
Sound Level	64 dB @ 1m
Maximum Operating Elevation	1500 m
Protection Level	IP23
System Weight	2000 Kg ±5
Connection Type	RS422 - TCP
Generator Fuel Consumption	10 L/S
DIMENSIONS (Main Engine Unit) (LengthxWidthxHeight)	2399mmx1066mmx1848mm ±5

ENGINE SPECIFICATIONS————————————————————————————————————				
Engine	Perkins			
Engine Type	Water Cooled Vertical Diesel			
Intake System	Natural Intake			
Cooling	Liquid Cooling			
Output Power	101 kW			
Maximum Speed (rpm)	1500 rpm			
Starting	Electrical Starter			

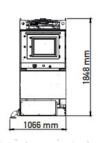
ENVIRONMENTAL TESTS				
ERVINGRI-IERTAE TEGTO				
Low Pressure (Operational)	Min. 3000 m			
Solar Radiation	MIL-STD-810G, Method 505.5, Procedure I, Category A2			
Low Temprature (Operational)	MIL-STD-810G, Method 501.5, Procedure II, 49°C+ Solar Radiation			
High Temprature (Storage)	MIL-STD-810G, Method 501.5, Procedure I, 60°C			
Low Temprature (Operational)	MIL-STD-810G, Method 502.5, Procedure II, -32°C			
Low Temprature (Storage)	MIL-STD-810G, Method 502.5, Procedure I, -40 °C			
Humidity	MIL-STD-810G, Method 507.5, Procedure II, Figüre 507.5-7			
Rain	MIL-STD-810G, Method 506.5, Procedure II			
Vibration	To MIL-STD-810G, Method 514.6, Procedure I, Category 4, Table 514.6 C-VI, Figure 514.6 C-3 (3 axes)			
Shock	Shock MIL-STD810G, Method 516.6, Procedure I, Functional shoc 20 g 11 ms, Table 516.6-II, Sawtooth 3 axis.			
Dust and Sand	MIL-STD-810G, Method 510.5, Procedure I, Procedure II			

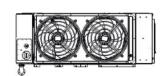
EMI/RFI SPECIFICATIONS —————		
MIL-STD-461E/F Standard	CE102, RE102, CS101, CS114, CS115,	
	CS116, RS103 Procedures	

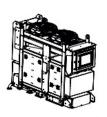


.....

....





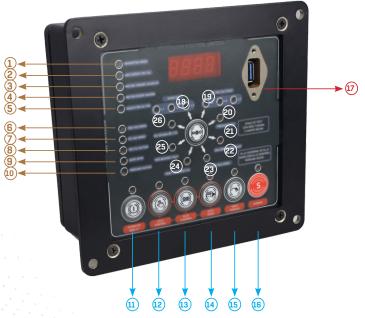


MF1005 GENERATOR CONTROL BOX



- It is positioned on the generator so that user can easily interfere in case of maintenance.
- It shows existing error and health status of the generator.
- It has 95% BIT capability.
- It is designed as per IP67 Standards. It also provides the opportunity to reach last 500 detailed log thanks to diagnostic.
- It enables to operate in 9-36 volts range.
- The signals trasnferred only with connectors, there is no need for panel.
- It is conformant to MIL-STD-810G and MIL-STD-461E/F standards.

Dimensions (Widthx-lengthxheight) 140x213x160 ±5 mm Weight 3,1 kg ±0.1 Communica-lion Protocol - RS422



DIAGNOSTIC		
AC CURRENT		
9 AC VOLTAGE		
FREQUENCY		
5 SECONT TO BIT		
HOUR COUNTER		
VOLTAGE		
FUEL LEVEL		
PRESSURE		
TEMPRATURE		

1	BLACKOUT MODE	9	HIGH CURRENT LED
2	LOW VOLTAGE LED	10	FREQUENCY ERROR LED
3	HIGH TEMPRATURE LED	11	AUTOMATIC START
4	LOW PRESSURE LED	12	MANUEL START
5	WATER ALERT LED	13	GLOWING
6	SINGLE PHASE LED	14	STARŢ
7	THREE PHASE LED	15	FUEL PUMP
8	VOLTAGE ERROR LED	16	EMERGENCY STOP