

# G20M 20KVA Military Generator



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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 G5M 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 G20M.
- 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.)
- G20M 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	15 KVA
Output Power	20 KVA
Maximum Ampere	22 A
Operating Temperature	-32 / +49 °C
Storage Temperature	-40 / +60 °C
Integrated Cooling System	Water Cooled
Sound Level	75 dB @ 7m
Maximum Operating Elevation	3000 m
Protection Level	IP23
System Weight	900 Kg ±5
Connection Type	RS422 - TCP
Generator Fuel Consumption	8,6 L/S
DIMENSIONS (Main Engine Unit) (LengthxWidthxHeight)	1484mmx1318mmx791mm ±5

## ENGINE SPECIFICATIONS

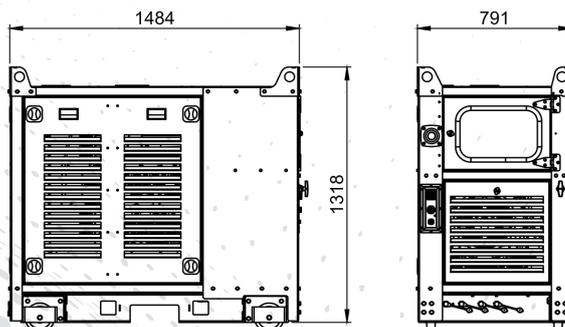
Engine	Perkins 404D-22E
Engine Type	Water Cooled Vertical Diesel
Intake System	Natural Intake
Cooling	Liquid Cooling
Output Power	22,1 kW
Maximum Speed (rpm)	1500 rpm
Starting	Electrical Starter

## ENVIRONMENTAL TESTS

Low Pressure (Operational)	Min. 3000 m
Solar Radiation	MIL-STD-810G, Method 505.5, Prosedüre I, Category A2
Low Temperature (Operational)	MIL-STD-810G, Method 501.5, Procedure II, 49°C+ Solar Radiation
High Temperature (Storage)	MIL-STD-810G, Method 501.5, Procedure I, 60°C
Low Temperature (Operational)	MIL-STD-810G, Method 502.5, Procedure II, -32°C
Low Temperature (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	MIL-STD810G, Method 516.6, Procedure I, Functional shock, 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
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## NR200 GENERATOR CONTROL BOX



### SPECIFICATIONS

- Easy transition between net or multiple generator applications
- More than one parallel generator connection to existent net together with Intercontroller 210 controller
- Two types of synchronisations: Synchrophasing or sliding synchronisation
- Isochronous (CAN) or Droop, emergency fall included load sharing
- Direct communication with EFI engines, including Tier 4 Final support
- Remote monitoring and control:
  - IntelliConfig for configuration, single generator or multi generator/site monitoring
  - WinScope for zero adjustment of PID regulators according to exact gen set type and application requirements
  - WinScope for cloud-based monitoring and control of your whole gen set fleet
- Communication and connection skills:
  - USB, CAN and RS485
  - USB master for configuration or loading or downloading firmware
  - With attachment module RS232 and additional RS485
  - Internet access by using ethernet with plug-in modules, GPRS73G/4G
  - Configurable Modbus RTU or TCP and SNMP protocols v2 support
  - Internal PLC support with monitor and PLC editor including IntelliConfig
  - Active SMS and e-mails in different languages
  - Geofencing and monitoring on WebSupervisor
- It operates with dual outputs for 2x5 crank and fuel solenoid, separated e-stop input
- Flexible event-based date logging up to 350 events
- Multi-purpose flexible timers

