

## END38 Diesel Generator Set



### Explanation

END Power Products generator sets provide optimum performance, reliability and versatility for integrated power generation system, constant standby, main power and continuous operation applications.

### Features

**ENDPOWER® heavy-duty engine - Robust 4-stroke industrial diesel, reliable power, low emissions and quick response to load changes.**

**Alternator - 2/3 step windings at low reactance; non-linear loads with low wave distortion, the possibility of short-circuiting for troubleshooting and Class H insulation.**

**Cooling system - Standard integrated kit mounted radiator designed and tested for rated ambient temperatures**

**The system simplifies the plant design requirements for rejected heat.**

**Control system - Datakom electronic control provides total generator system integration, including standard equipment and automatic remote start/stop, alarm and status message display.**

**Cabins- Optionally, it is possible to make protective and soundproof cabins against climatic conditions.**

**Warranty and service - Comprehensive warranty backed and worldwide after-sales support. 10 Years spare parts supply n possible.**

**Stand by Rating (ESP): It is the way the generators operate at certain time intervals under variable load. It can operate as backup power. It is not suitable to be operated under overload.**

**Prime Rating (PRP): It is the way of working as a continuous power supply when there is no mains power. When operating under variable load 24 hours a day, 10% overload is allowed for 1 hour every 12 hours.**

Jeneratör Modeli	Motor Modeli	Prime değeri	Stand by değeri
END38	DE3,0 MYE	28,7	33/38

## Generator Set Features

Governor edit class	ISO 8528 G3
Voltage regulation, at full load and no load	± 1%
Random voltage change	± 1%
Frequency regulation	Simultaneous
Random frequency change	± 0.25%
EMS compatibility	Suitable for BS 800 ,VDE G and N levels

## Engine Features

Engine Brand	Detroit
Ventilation type	Turbocharger
Engine Speed	1500 rpm
Diameter	90mm
Stroke	105mm
Total Volume	2977 L
Cylinder block	4 cylinder-Vertical
Oil capacity low / High	8 L
Coolant capacity for engine / Radiator	5 L
Initial tension	12 V
Fuel system	Direct injection
Fuel Filter	Layer porous fuel filter
Air filter type	Heavy duty air filter
Compression ratio	18:1
Loop	4 stroke
Cooling system	Water cooled
Governor type	Electronic
Fuel consumption at 25% of the generator set main output	3,69 L/s
Fuel consumption at 50% of the generator set main output	5,27 L/s
Fuel consumption at 75% of the generator set main output	6,15 L/s
Fuel consumption at 100% of the generator set main output	6,87 L/s

## Alternator Features

Alternator Brand	Megatron
Type	Brushless, rotary field
Frequency	50 Hz
Sargı adımı	2/3
Winding pitch	single bed
Protection	IP23
insulation system	H class
Standard temperature rise	Standard 125°C ,Stand by 163°C
Stimulant type	Self-stimulation or self-stimulation by PMG
Phase sequence	A (U), B (V), C (W)
Alternator cooling	Direct centrifugal fan
AC waveform total harmonic distortion (THDV)	No load < 1.5%. Non-distorted balanced linear load < 5%
Telephone impact factor (TIF)	NEMA MG1-22.43 per <50%
Telephone harmonic k factor (THF)	<2%

## Control System

The D-500LITE MK2 generator control device is a modern technology and economical generator control device that provides remote monitoring over the Internet using plug-in communication modules.

### Main Featureskler

- Diesel and gas generator support
- 400Hz generator support
- Event log with 400x measurement value
- All parameters can be changed from the front panel
- 3 level program password
- 128x64 pixel graphic LCD
- Language installation
- Current-voltage waveform
- Current-voltage harmonic analysis
- 16 Amp / 250V ŞK / JK outputs
- 8 programmable digital inputs
- 6 programmable digital outputs
- 3 programmed analog inputs
- CANBUS-J1939 & MPU input
- 3 programmed service alarms
- Multiple automatic test program
- Weekly work schedule
- Dual generator support, equal aging
- Fine speed tuning (some ECUs)
- Automatic fuel pump control
- Protections cancellation feature
- Over-power protection
- Reverse power protection
- Overcurrent IDMT protection
- Load shedding, dummy load
- Multiple load shedding programs
- Current unbalance protection
- Voltage imbalance protection
- Fuel filling and theft alarms
- Battery powered real time clock
- Idle speed control
- Battery charging work
- Battle mode support
- Multiple nominal requirement definitions
- Contactor and motorized switch driving
- 4 quarter energy meters
- Grid energy meters
- Fuel filling meter
- Fuel consumption meter
- Modem dignostics page
- Parameter setting via USB, RS-232 and GPRS
- Free configuration software
- Possibility of control via SMS
- Ready to monitor the center
- Mobile generator support
- Automatic GSM location determination
- GPS connection (RS232)
- Downloading software via USB
- IP65 protection (with gasket)

### Functions

- AMF device
- ATS device
- Remote Start device
- Manual Operation device
- Motor Controller
- Remote monitoring panel

## TOPOLOGIES

- 3• 3 ph 4 w, star and delta
- 3 ph 3 w, 2 CT
- 2 ph 3 w
- 1 Phase 2 Cable

## Communication

- USB tool
- J1939-CANBUS
- Geolocation via GSM
- Internet Central Monitoring
- Sending an SMS Message
- Send Email
- Free Computer Software: RainbowPlus
- Modbus RTU (2400-57600baud)
- Modbus TCP/IP

## REMOTE MONITORING (OPTIONAL)

- Single server supports 60'000 devices
- Provides data security, data is only sent to the server
- Uses internet-based dynamic world map
- Device states are shown live on the map and side panel
- Hierarchical configuration and grouping
- Remote control of devices
- Supports all Datakom devices connected with DKG 210 gateway
- Supports all brands of Modbus enabled products with DKG 210 gateway
- Data recording, analysis and reporting
- Tablet and smartphone interfaces

## ADD-ON MODULES (OPTIONAL)

- GSM Modem (2G-3G-4G)
- Ethernet 100 Mb/sn
- Wi-Fi (802,11 sn/g/n)
- RS-485 (2400-57600baud)
- RS-232 (2400-57600baud)

## MEASUREMENTS

- Mains and generator PN/PP voltages
- Mains and generator frequency
- Mains and generator phase currents
- Mains and generator neutral currents
- Grid and generator, phase and total, kW, kVA, kVAR, pf
- Engine speed
- Battery voltage

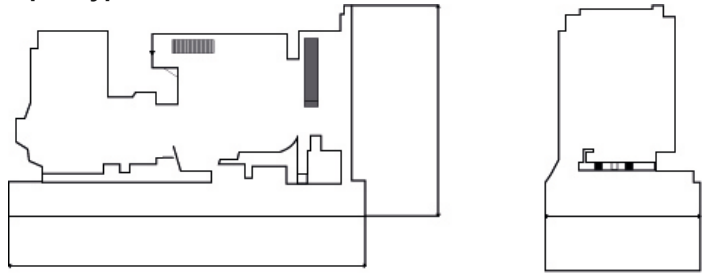


D-500LITE MK2 kontrol paneli

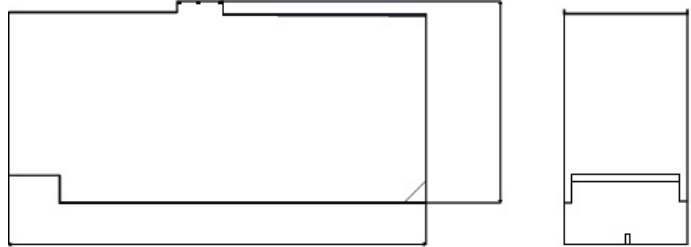
## Cabin Standard Features

- Compact design connection with weldless nuts and bolts.
- Integrated cabin, generator set, exhaust system and fuel tank.
- Body made of steel components treated with polyester powder paint
- Easy access to all service points
- Exhaust system inside the cabin
- Wide doors on both sides
- Lockable control panel
- Emergency stop button mounted outside the cabinet
- The fuel filler section and the battery can only be accessed via the lockable access doors.
- Customer options available to meet your application needs
- Noise level tests of katana generator sets in accordance with 2000/14/EC directive Szutest (CE standards conformity assessment body).

open type



with cabin



	Dry Weight (kg)	Length(mm)	Width (mm)	Height (mm)	Tank Capacity(L)
<b>Open Type</b>	<b>700</b>	<b>1850</b>	<b>900</b>	<b>1400</b>	<b>73,6</b>
<b>With Cabin</b>	<b>810</b>	<b>2050</b>	<b>900</b>	<b>1600</b>	<b>73,6</b>

## Codes and standards



END Power Products has the Quality Management certificate. ISO 9001:2015



END Power Products Occupational Health and Safety Management Systems it has a hard cover. ISO 45001: 2018



END Power Products has the Environmental Management System certification. ISO 14001-2004



ENDPOWER generator sets are CE certified.

