

END53
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
END53	DE4,1 MYE	39,9	45,9/53

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	105 mm
Stroke	118 m
Total Volume	2977 L
Cylinder block	4 cylinder-Vertical
Oil capacity low / High	13 L
Coolant capacity for engine / Radiator	7,2 L
Initial tension	12 V or 24 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	Swater cooled
Governor type	Electronic
Fuel consumption at 25% of the generator set main output	4,17 L/s
Fuel consumption at 50% of the generator set main output	5,58 L/s
Fuel consumption at 75% of the generator set main output	6,75L/s
Fuel consumption at 100% of the generator set main output	8,80 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

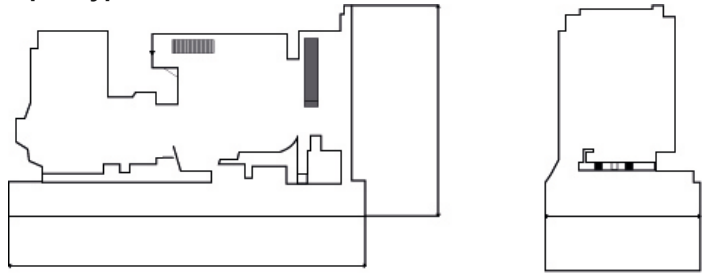


D-500LITE MK2 kontrol paneli

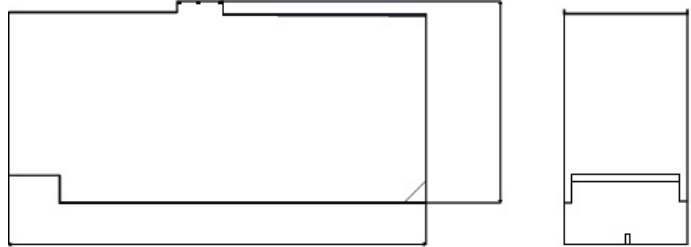
Cabin Standard Features

- 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 (mm)	Length(mm)	Width (mm)	Height (mm)	Tank Capacity (L)
Open Type	850	2150	900	1700	126,4
With Cabin	996	2300	900	1800	126,4

Codes and standards



ENDPower Products has the Quality Management certificate. ISO 9001:2015



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



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



ENDPOWER generator sets are CE certified.

