GO-BUSINESS

Perkins GENERATOR





About Product

Go-Business generator sets provide optimum performance, reliability and versatility for power generation system, standby, main power and continuous operation applications. Backed by comprehensive warranty and worldwide after-sales support. 10-year spare parts supply is available.

Power (kVA)

VOLTAGE	Standby Power (ESP)		Prime Power (PRP)		3 Phase, 50 Hz
	kW	kVA	kW	kVA	Ampere
400/231	200,00	250,00	180,00	225,00	360,85

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

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.

General Features

Model Name	GBP-250
Frequency (HZ)	50
Fuel Type Used	Diesel
Engine Make and Model	PERKINS 1206A-E70TTAG2
Alternator Brand and Model	Business
Control Panel Model	D500
Cabin	GB 250

ENGINE FEATURES

Engine	
Engine Model	PERKINS
Number of Cylinders (L)	1206A-E70TTAG2
Bore (mm.)	6 cylinders - in line
Stroke (mm.)	105
Cylinder Volume (lt.)	135
Air intake	7,01
Compression Ratio	Turbo Charged and AfterCooled
Speed (rpm)	

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Oil Capacity (Including Filter) (lt)	15.8:1
Standby Power (kW)	1500
Prime Power (kW)	16
Number of Jacket Water Heater	226.1/303.1
Jacket Water Heater Power (Watts)	204.2/273.7
Fuel Type Used	1
Injection and System Type	1500
Fuel Pump Type	Diesel
Governor System	COMMON RAİL
Operating Voltage (Vdc)	Direct
Battery and Capacity (Quantity/Ah)	ECM
Charge Alternator	12 Vdc
Cooling Method	1x85
Cooling Fan Air Flow (m³/min)	100
Coolant Capacity (Only with Engine / Radiator)(lt)	Water Cooled
Air filter	25
Prime 100% Load Fuel Consumption (lt/hour)	Dry Type
Prime 75% Load Fuel Consumption (lt/hour)	51
Prime 50% Load Fuel Consumption (lt/hour)	38
	25

Engine groups used in our products; Heavy-duty 4-stroke industrial diesel delivers reliable power, low emissions and quick response to load changes.

The standard integrated kit-mounted radiator system, designed and tested for engine cooling system rated ambient temperatures, simplifies plant design requirements for rejected heat.

Alternator Features

Alternator Model	
Frequency (HZ)	Business
Power (kVA)	50
VOLTAGE (V)	225
Phase	400
Automatic Voltage Regulator	3
Voltage Regulation	DSR
Insulation System	(+/-)1%
Protection Class	H
Power Factor	IP23
Alternator Weight (Kg)	0.8
Cooling Air (m³/min)	602
	32

2/3 step windings at low reactance; non-linear loads with low wave distortion, short-circuit possibility for troubleshooting and class H isolation.

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Control System

The D-500 is an advanced generator control device that supports all types of communication and functionality. Its advanced communication features allow it to be included in any automation and monitoring system. The fact that all communication ports are available on the device and all of them are active at the same time is a revolutionary innovation in the sector.

Explanation

The advanced communication features of the device allow it to be integrated into any automation system. The complete software features of the device also allow software update via the USB port. Windows-based PC software allows programming and monitoring of the device via USB, RS-485, RS-232, Ethernet and GSM.

Main Features

- 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
- synchroscope and sync relay
- 16 Amp / 250V ŞK / JK outputs
- 8 programmable digital inputs
- Entries can be increased to 40
- 8 programmable digital outputs
- Outputs can be increased to 40
- 4 programmable analog inputs
- CANBUS-J1939 & MPU input
- 3 programmed service alarms
- Multiple self-test program
- weekly work schedule
- Dual generator support, evenly aged
- 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 unbalance protection
- Fuel filling and fuel theft alarms
- Battery powered real time clock
- Idle speed control
- Battery charging work
- Battle mode support
- Multiple nominal requirement definitions
- Contactor+motorized switch driving
- 4 quarter energy meters
- Grid energy meters
- fuel meter
- fuel consumption meter
- Modem & ethernet pages
- Free configuration software
- Possibility of control via SMS
- Ready for central monitoring via Ethernet and GPRS
- Mobile generator support
- Automatic GSM geolocation
- GPS connection (USB and RS232)
- Dynamic DNS support
- Downloading software via USB
- IP65 protection with standard gasket

Functions

- AMF device (seamless)
- ATS device (seamless)
- Remote Start device
- Manual Operation device
- Motor Controller
- remote monitoring panel
- Long-term recording to flash memory
- Input-output boost

Communication

- Ethernet (10/100Mb)
- 4-band GPRS modem (optional)
- USB Host and USB Device
- RS-485 (2400-115200baud)
- RS-232 (2400-115200baud)
- Micro SD card slot
- J1939-CANBUS
- Geolocation via GSM
- GPS connection (USB and RS-232)
- Embedded web server
- Web monitoring and programming
- Central monitoring over the Internet
- SMS message sending
- Sending e-mail
- Freeware: Rainbow Plus
- Modbus RTU and Modbus TCP/IP
- SNMP

Remote Monitoring

- Single server supports 60'000 devices
- Provides data security, data is only sent to the server
- Use 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 the DKG 210 gateway
- Data recording, analysis and reporting
- Tablet and smartphone interfaces



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OPEN TYPE GENERATOR DIMENSIONS (mm)

LENGTH	2750
WIDTH	1300
HEIGHT	1928
DRY WEIGHT (kg.)	2165
TANK CAPACITY (lt.)	470

GENERATOR CAB DIMENSIONS (mm)

LENGTH	3960
WIDTH	1356
HEIGHT	2167
DRY WEIGHT (kg.)	3180
TANK CAPACITY (lt.)	470



- Carcass structure made of steel profile and sheet
- Cabin formation with panels made of steel sheet
- Emergency stop button
- Control panel mounted on chassis at the back
- Cable outlet from the back
- Corrosion resistant locks and hinges
- Oil drain with manual lever pump on motor
- Exhaust system on cabin
- Cover for radiator water filling
- soundproofing materials
- Stepping ladder for exit to ceiling

Go-Business Generator set cabins have the following features as standard;

- Compact design connection with weldless nuts and bolts.
- Integrally mounted cab, generator set, exhaust system and fuel tank.
- Housing 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 cabin
- The fuel filler section and battery are only accessible via the lockable access doors.
- Customer options available to meet your application needs
- Noise level tests of Go-Business generator sets have been approved by Szutest (CE standards conformity assessment body) in accordance with 2000/14/EC directive.

Cabins

Optionally, it is possible to build protective and soundproof cabins against climatic conditions.

Chassis and Fuel Tank

It minimizes the vibration level thanks to its rigid structural design and anti-vibration wedges, which are made of steel that will carry the load of the generator set. All chassis contain lifting lugs. Except for the standard chassis, all of which are produced by Go-Business, special solutions designed in line with customer demands provide great convenience in transportation and placement. In generator sets with a power of less than 1600 kVA, the fuel tank is produced as integrated into the chassis. For generator sets with power greater than 1600 kVA, the rectangular type fuel tank is provided separately with the generator set. Each type of fuel tank has a level indicator.

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