



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	404	505	367	458	729,5

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	GBDW-505
Frequency (HZ)	50
Fuel Type Used	Diesel
Engine Make and Model	DAEWOO 8DWV-505
Alternator Brand and Model	Business
Control Panel Model	D500
Cabin	GB - 505

ENGINE FEATURES

Engine	DAEWOO
Engine Model	8DWV-505
Number of Cylinders (L)	8 cylinders - in line
Bore (mm.)	128
Stroke (mm.)	142
Cylinder Volume (lt.)	18,13
Air intake	Turbo Charged and Charge Air Cooled
Compression Ratio	14.6:1
Speed (rpm)	1500

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Oil Capacity (Including Filter) (lt)	21
Standby Power (kW)	404
Prime Power (kW)	367
Number of Jacket Water Heater	1
Jacket Water Heater Power (Watts)	3000
Fuel Type Used	Diesel
Injection and System Type	MEUI
Fuel Pump Type	ECM
Governor System	24 Vdc
Operating Voltage (Vdc)	2x100
Battery and Capacity (Quantity/Ah)	45
Charge Alternator	Water Cooled
Cooling Method	650
Coolant Capacity (Only with Engine / Radiator)(lt)	/88
Air filter	Dry Type
Prime 100% Load Fuel Consumption (lt/hour)	101,4
Prime 75% Load Fuel Consumption (lt/hour)	72,5
Prime 50% Load Fuel Consumption (lt/hour)	53,1

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	Business
Frequency (HZ)	50
VOLTAGE (V)	400
Phase	3
Automatic Voltage Regulator	DER1
Voltage Regulation	(+/-)0.5%
Insulation System Protection	H
Class	IP23
Power Factor	0.8
Cooling Air (m³/min)	54

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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DSE6110/20

AUTO START & AUTO MAINS FAILURE CONTROL MODULES

FEATURES



DSE6120

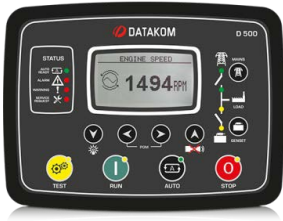
DSE6110



D500/MK3/LITE/D700

AUTO START & AUTO MAINS FAILURE CONTROL MODULES

FEATURES



It supports many languages such as Turkish, English, Spanish, French and Chinese. Datakom control panels can be set in different languages depending on the country in which they are used. Different languages can be loaded onto the device with Rainbow Plus.

SPECIFICATION

MAXIMUM OPERATING CURRENT
178 mA at 12 V, 95 mA at 24 V

MAXIMUM STANDBY CURRENT
88 mA at 12 V, 50 mA at 24 V

CHARGE FAIL/EXCITATION RANGE
0 V to 35 V

MAINS (UTILITY) DSE6120 ONLY VOLTAGE RANGE
15 V - 333 V AC (L-N)

0 to 300 V-AC (Ph-N)

FREQUENCY RANGE
3.5 Hz to 75 Hz

0-600 Hz.

OUTPUTS

OUTPUT A (FUEL)
2 A DC at supply voltage

OUTPUT B (START)
2 A DC at supply voltage

AUXILIARY OUTPUTS C,D,E & F
2 A DC at supply voltage

Mains and genset contactor outputs:
16Amps@250V

DC Outputs: Protected mosfet semiconductor outputs,

rated 1Amp@28V-DC

Cranking dropouts:

Survives 0V for 100ms

GENERATOR VOLTAGE RANGE
15 V - 333 V AC (L-N)

Mains voltage:

0 to 300 V-AC (Ph-N)

FREQUENCY RANGE
3.5 Hz to 75 Hz

MAGNETIC PICKUP VOLTAGE RANGE
+/- 0.5 V to 70 V

FREQUENCY RANGE
10,000 Hz (max)

DIMENSIONS

OVERALL
215 mm x 158 mm x 42 mm
8.5" x 6.2" x 1.6"

PANEL CUT-OUT
182 mm x 137 mm
176 mm x 121 mm.

MAXIMUM PANEL THICKNESS
8 mm
0.3"

STORAGE TEMPERATURE RANGE

-40 °C to +85 °C
-40°C to 80°C (-40 to +176°F)

RELATED MATERIALS

TITLE

DSE6110 Installation Instructions
DSE6120 Installation Instructions
DSE6100 Quick Start Guide
DSE6100 Operator Manual
DSE6100 Configuration Suite PC Manual

RELATED MATERIALS

TITLE

Installation Instructions
User Manual
NFPA Application Note
Operator Manual
Configuration Suite PC Manual

OPEN TYPE GENERATOR DIMENSIONS (mm)

LENGTH	3100
WIDTH	1650
HEIGHT	2065
DRY WEIGHT (kg.)	3260
TANK CAPACITY (lt.)	600

GENERATOR CAB DIMENSIONS (mm)

LENGTH	4500
WIDTH	1650
HEIGHT	2365
DRY WEIGHT (kg.)	4270
TANK CAPACITY (lt.)	600



- 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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