

50 Hz Diesel Generator Set

About Product

IDE

IDEA generator sets are designed to be used as backup or continuous power supply. They are subjected to detailed load and performance tests in our production facilities in order to provide ideal performance and safe usage.



Power Output Values

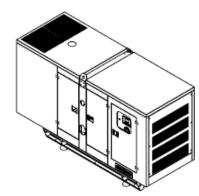
	Sta	Standby Power (ESP)		Prime Power (PRP)		
Voltage	kVA	kW	Ampere	kVA	kW	Ampere
400/231	505 kVA	404 kW	729,5	458 kVA	367 kW	661,5
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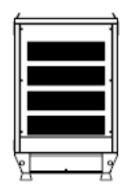
Standby Power (ESP) : This rating is for the supply of continuous electrical power at variable load , in the event of utility power failure. No overload is permitted.

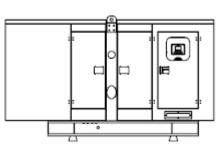
Prime Power (PRP) : This rating is for the supply of continuous electrical power at variable load. There is no limitation on the annual hours in operation and 10% overload power can be supplied for 1 hour in 12.

Weight And Dimensions

Туре	Width x Length x Height (mm)	Weight (kg)	Fuel Tank (Lt)	Sound dB(A) @7mt
Open	1650x3100x2065 mm	3260 kg	600 lt	ТВА
Soundproofed	1650x4500x2365 mm	4270 kg	600 lt	81









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Engine

	DAEW	00
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Frequency		50 Hz	
Output Rating	kW	445	
Manufacturer and Model		DAEWOO 8DWV-505	
Fuel		Diesel	
Injection		Direct	
Aspiration		Turbo Charged & Intercooled	
Cylinders		8	
Bore and Stroke	mm	128 x 142	
Displacement	lt	14,618	
Cooling		Water	
Engine Oil Specification		SAE 15W40	
Compression Ratio		14.6:1	
Engine Oil Capacity(Sump Only)	lt	21	
Coolant Capacity (incl.radiator)	lt	88	
Governor		Electronical	
Air Filter		Dry element	
FUEL CONSUMPTION			
100 % Load	lt/h	101,4	
75 % Load	lt/h	72,5	
50 % Load	lt/h	53,1	
EXHAUST SYSTEM			
Maximum Temperature	°C	ТВА	
Exhaust Gas Flow	m³/min	9 <mark>1,</mark> 5	
Maximum Allowed Back Pressure	kPA	ТВА	
Exhaust Flange Size (Internal Dia.)	mm	99	
AIR SYSTEM			
Intake Air Flow	m³/min	35,2	
Total Cooling Air Flow	m³/min	ТВА	
STARTING SYSTEM		Y	
Starter Motor	kW	7	
Battery Capacity	Ah	2x100	
Auxiliary Voltage	V	24	

Alternator

Poles	4 pole
Winding Connections	Star
Insulation	Class H
Enclosure	IP23
Exciter System	Self regulating Brushless
Voltage Regulator	AVR
Steady State Voltage Regulation	±1%
Bearing	Single bearing sealed
Coupling	Flexible disc
Cooling	Direct drive centrifugal blower fan



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INDUSTRIAL RANGE DATASHEET

50 Hz Diesel Generator Set

IDJ505DW

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Control Panel IDP300

The new IDP300 genset controller is a cost effective modular genset controller ready for internet monitoring through plug-in modules.

Its main advantages are multifunctionality, support for multiple topologies, harmonic analysis and detailed power measurements.



Software features are complete with easy firmware upgrade through USB port. The Windows based PC software allows monitoring and programming through USB, RS-485, RS-232, Ethernet and GPRS.

The Rainbow Scada web service allows monitoring and control of an unlimited number of gensets from a single central location.

Optional Equipments

Some Optional Equipment IDEA Provides with Generator Sets;

- Remote radiator applications,
- Automatic fuel filling system,
- Fuel tank, oil pan, instrument panel, alternator, coil heaters,
- Synchronization systems,
- Generator output fuse,
- Mains generator transfer switches,
- Seismic solutions,
- Remote monitoring
- Other requested solutions

Reference Standards

IDEA Generator Sets are CE approved and comply with the following standards;

- Power according to ISO 3046 and ISO 8528
- EN 12100, EN 13857, EN 60204
- 2006/42/CE Machinery Safety
- 2006/95/EC Low Voltage
- 2004/108/CE EMC
- Ambient reference conditions 1000 mbar, 25 °C, 30 % relative humidity ISO8528

All the information in this leaflet is intended for general purposes only. IDEA reserves the right to change the specifications without notice.

