POWER IS OUR WORLD

50 Hz Diesel Generator Set

About Product

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

Voltage	Standby Power (ESP)			Prime Power (PRP)		
	kVA	kW	Ampere	kVA	kW	Ampere
400/231	794 kVA	635 kW	1147	712 kVA	569 kW	1029

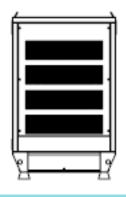
Standby Power (ESP): This rating is for the supply of continuous electrical power at variable load, in the event of utility power failure. No overload is permitted.

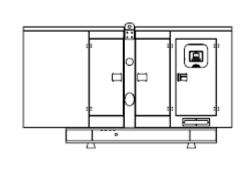
Prime Power (PRP): This rating is for the supply of continuous electrical power at variable load. There is no limitation on the annual hours in operation and 10% overload power can be supplied for 1 hour in 12.

Weight And Dimensions

Туре	Width x Length x Height (mm)	Weight (kg)	Fuel Tank (Lt)	Sound dB(A) @7mt
Open	1700x3800x2400 mm	4240 kg	800 lt	ТВА
Soundproofed	1700x5200x2700 mm	5470 kg	800 lt	84







IDΕA

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Engine



Frequency		50 Hz	
Output Rating	kW	700	
Manufacturer and Model		DAEWOO 12DWV-790	
Fuel		Diesel	
Injection		Direct	
Aspiration		Turbo Charged & Intercooled	
Cylinders		12	
Bore and Stroke	mm	128 x 142	
Displacement	lt	21,93	
Cooling		Water	
Engine Oil Specification		SAE 15W40	
Compression Ratio		14.6:1	
Engine Oil Capacity(Sump Only)	lt	57	
Coolant Capacity (incl.radiator)	lt	123	
Governor		Electronical	
Air Filter		Dry element	
FUEL CONSUMPTION			
100 % Load	lt/h	157,7	
75 % Load	lt/h	112,8	
50 % Load	lt/h	82,6	
EXHAUST SYSTEM			
Maximum Temperature	°C	ТВА	
Exhaust Gas Flow	m³/min	1 <mark>44</mark> ,1	
Maximum Allowed Back Pressure	kPA	TBA	
Exhaust Flange Size (Internal Dia.)	mm	99	
AIR SYSTEM			
Intake Air Flow	m³/min	55,4	
Total Cooling Air Flow	m³/min	TBA	
STARTING SYSTEM		₩	
Starter Motor	kW	9	
Battery Capacity	Ah	2x120	
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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Control Panel IDP300

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

INDUSTRIAL RANGE

DATASHEET

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.



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