

POWER IS OUR WORLD

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.

INDUSTRIAL RANGE

DATASHEET



Power Output Values

Voltage	Sta	Standby Power (ESP)			Prime Power (PRP)		
	kVA	kW	Ampere	kVA	kW	Ampere	
400/231	2000 kVA	1600 kW	2900	1800 kVA	1480 kW	2673	

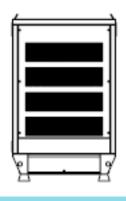
Standby Power (ESP): This rating is for the supply of continuous electrical power at variable load, in the event of utility power failure. No overload is permitted.

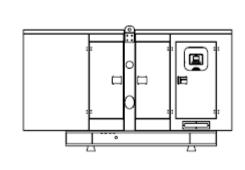
Prime Power (PRP): This rating is for the supply of continuous electrical power at variable load. There is no limitation on the annual hours in operation and 10% overload power can be supplied for 1 hour in 12.

Weight And Dimensions

Туре	Width x Length x Height (mm)	Weight (kg)	Fuel Tank (Lt)	Sound dB(A) @1mt
Open	2250x6050x2780 mm	11821 kg	3500	ТВА
Soundproofed	2470x12200x3100 mm	19450 kg	3500	92







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Engine



Frequency		50 Hz	
Output Rating	kW	1741	
Manufacturer and Model		Perkins 4016-TAG1A	
Fuel		Diesel	
Injection		Direct	
Aspiration		Turbocharged and Aircooled	
Cylinders		16	
Bore and Stroke	mm	160 x 190	
Displacement	lt	45,8	
Cooling		Water	
Engine Oil Specification		SAE 15W40	
Compression Ratio		13,6:1	
Engine Oil Capacity	lt	214	
Coolant Capacity (incl.radiator)	lt	316	
Governor		Electronical	
Air Filter		Dry element	
FUEL CONSUMPTION			
100 % Load	lt/h	383	
75 % Load	lt/h	277	
50 % Load	lt/h	185	
EXHAUST SYSTEM			
Maximum Temperature	°C	439	
Exhaust Gas Flow	m³/min	3 <mark>43</mark>	
Maximum Allowed Back Pressure	kPA	TBA	
Exhaust Flange Size (Internal Dia.)	mm	254	
AIR SYSTEM			
Intake Air Flow	m³/min	140	
Total Cooling Air Flow	m³/min	2394	
STARTING SYSTEM		¥	
Starter Motor	kW	16,4	
Battery Capacity	Ah	4x220	
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.

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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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