#### **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**

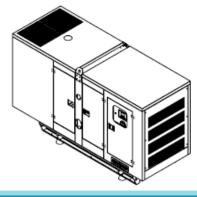
Voltage	Standby Power (ESP)			Prime Power (PRP)		
	kVA	kW	Ampere	kVA	kW	Ampere
400/231	1350 kVA	1080 kW	1950	1250 kVA	1000 kW	1806

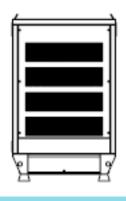
**Standby Power (ESP):** This rating is for the supply of continuous electrical power at variable load, in the event of utility power failure. No overload is permitted.

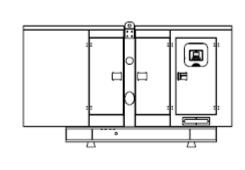
**Prime Power (PRP):** This rating is for the supply of continuous electrical power at variable load. There is no limitation on the annual hours in operation and 10% overload power can be supplied for 1 hour in 12.

# **Weight And Dimensions**

Туре	Width x Length x Height (mm)	Weight (kg)	Fuel Tank (Lt)	Sound dB(A) @1mt
Open	2300x5200x2985 mm	9420 kg	1500	ТВА
Soundproofed	2300x5200x3285 mm	13180 kg	1500	89









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# **Engine**



Frequency		50 Hz	
Output Rating	kW	1224	
Manufacturer and Model		Perkins 4012-46TWG2A	
Fuel		Diesel	
Injection		Direct	
Aspiration		Turbocharged and Aircooled	
Cylinders		12	
Bore and Stroke	mm	160 x 190	
Displacement	lt	45,48	
Cooling		Water	
Engine Oil Specification		SAE 15W40	
Compression Ratio		13:1	
Engine Oil Capacity	lt	177	
Coolant Capacity (incl.radiator)	lt	201	
Governor		Electronical	
Air Filter		Dry element	
FUEL CONSUMPTION			
100 % Load	lt/h	259	
75 % Load	lt/h	196	
50 % Load	lt/h	143	
EXHAUST SYSTEM			
Maximum Temperature	°C	422	
Exhaust Gas Flow	m³/min	1 <mark>8</mark> 0	
Maximum Allowed Back Pressure	kPA	5	
Exhaust Flange Size (Internal Dia.)	mm	<b>254</b>	
AIR SYSTEM			
Intake Air Flow	m³/min	109	
Total Cooling Air Flow	m³/min	<mark>1680</mark>	
STARTING SYSTEM		₩	
Starter Motor	kW	16,4	
Battery Capacity	Ah	4x200	
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



**IDJ1350P** 



#### POWER IS OUR WORLD

#### 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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