#### **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	660 kVA	528 kW	953,5	600 kVA	480 kW	867

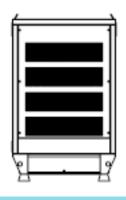
**Standby Power (ESP):** This rating is for the supply of continuous electrical power at variable load, in the event of utility power failure. No overload is permitted.

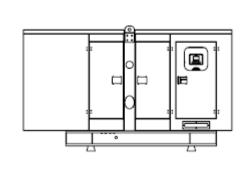
**Prime Power (PRP):** This rating is for the supply of continuous electrical power at variable load. There is no limitation on the annual hours in operation and 10% overload power can be supplied for 1 hour in 12.

# **Weight And Dimensions**

Туре	Width x Length x Height (mm)	Weight (kg)	Fuel Tank (Lt)	Sound dB(A) @1mt
Open	1650x3600x2120 mm	3580 kg	800 lt	ТВА
Soundproofed	1650x4910x2450 mm	4620 kg	800 lt	82









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# **Engine**



Frequency		50 Hz	
Output Rating	kW	592,7	
Manufacturer and Model		Perkins 2806A-E18TAG1A	
Fuel		Diesel	
Injection		Direct	
Aspiration		Turbocharged & Aftercooled	
Cylinders		6	
Bore and Stroke	mm	145 x 183	
Displacement	lt	18,13	
Cooling		Water	
Engine Oil Specification		SAE 15W40	
Compression Ratio		14,5:1	
Engine Oil Capacity	lt	62	
Coolant Capacity (incl.radiator)	lt	61	
Governor		Electronical	
Air Filter		Dry element	
FUEL CONSUMPTION			
100 % Load	lt/h	123	
75 % Load	lt/h	90	
50 % Load	lt/h	61	
EXHAUST SYSTEM			
Maximum Temperature	°C	571	
Exhaust Gas Flow	m³/min	1 <mark>0</mark> 4	
Maximum Allowed Back Pressure	kPA	6,9	
Exhaust Flange Size (Internal Dia.)	mm	202	
AIR SYSTEM			
Intake Air Flow	m³/min	36	
Total Cooling Air Flow	m³/min	<mark>702</mark>	
STARTING SYSTEM		¥	
Starter Motor	kW	9	
Battery Capacity	Ah	2x150	
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.



www.ideajenerator.com I info@ideajenerator.com