### **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**

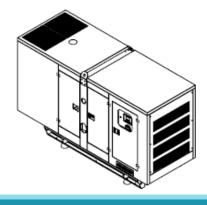
Voltage	Standby Power (ESP)			Prime Power (PRP)		
	kVA	kW	Ampere	kVA	kW	Ampere
400/231	500 kVA	400 kW	725	450 kVA	360 kW	650

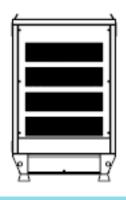
**Standby Power (ESP):** This rating is for the supply of continuous electrical power at variable load, in the event of utility power failure. No overload is permitted.

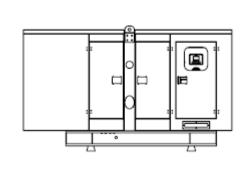
**Prime Power (PRP):** This rating is for the supply of continuous electrical power at variable load. There is no limitation on the annual hours in operation and 10% overload power can be supplied for 1 hour in 12.

# **Weight And Dimensions**

Туре	Width x Length x Height (mm)	Weight (kg)	Fuel Tank (Lt)	Sound dB(A) @1mt
Open	1300x3200x2160 mm	3350 kg	600lt	TBA
Soundproofed	1300x4910x2420 mm	4060 kg	600lt	80







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## **Engine**



**IDJ500I** 

Frequency		50 Hz	
Output Rating	kW	414	
Manufacturer and Model		FPT C13 TE6W	
Fuel		Diesel	
Injection		Direct – Electronic Common Rail	
Aspiration		Turbocharged & Aftercooled	
Cylinders		6	
Bore and Stroke	mm	135 x 150	
Displacement	lt	12,88	
Cooling		Water	
Engine Oil Specification		SAE 15W40	
Compression Ratio		16,5:1	
Engine Oil Capacity	lt	32	
Coolant Capacity (incl.radiator)	lt	38,1	
Governor		Electronical (ECU)	
Air Filter		Dry element	
FUEL CONSUMPTION			
100 % Load	lt/h	89,9	
75 % Load	lt/h	72,5	
50 % Load	lt/h	51,8	
EXHAUST SYSTEM			
Maximum Temperature	°C	471	
Exhaust Gas Flow	kg/h	1 <mark>73</mark> 1	
Maximum Allowed Back Pressure	kPA	5	
Exhaust Flange Size (Internal Dia.)	mm	94,5	
AIR SYSTEM			
Intake Air Flow	m³/h	<u>1443</u>	
Total Cooling Air Flow	m³/h	408	
STARTING SYSTEM		¥	
Starter Motor	kW	7,8	
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.

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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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