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

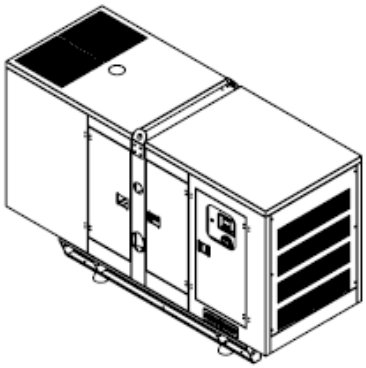
Voltage	Standby Power (ESP)			Prime Power (PRP)		
	kVA	kW	Ampere	kVA	kW	Ampere
400/231	**110 kVA**	88 kW	159	**100 kVA**	80 kW	144,5

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.

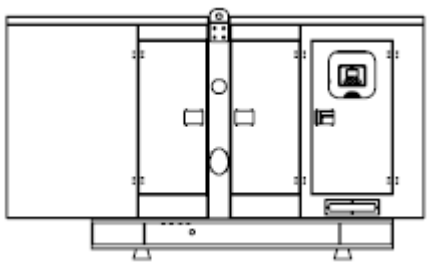
Prime Power (PRP) : This rating is for the supply of continuous electrical power at variable load. There is no limitation on the annual hours in operation and 10% overload power can be supplied for 1 hour in 12.

Weight And Dimensions

Type	Width x Length x Height (mm)	Weight (kg)	Fuel Tank (Lt)	Sound dB(A) @1mt
Open	1000x1950x1410 mm	1355 kg	200 lt	TBA
Soundproofed	1000x2700x1610 mm	1460 kg	200 lt	78







Engine

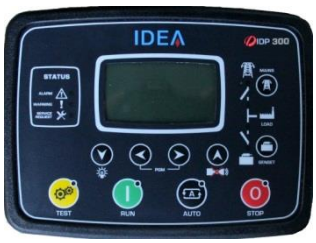
Frequency		50 Hz
Output Rating	kW	96
Manufacturer and Model		FPT N45 TM2A
Fuel		Diesel
Injection		Direct
Aspiration		Turbocharged & Aftercooled
Cylinders		4
Bore and Stroke	mm	104 x 132
Displacement	lt	4,5
Cooling		Water
Engine Oil Specification		SAE 15W40
Compression Ratio		17,5:1
Engine Oil Capacity	lt	12,8
Coolant Capacity (incl.radiator)	lt	18,5
Governor		Mechanical
Air Filter		Dry element
FUEL CONSUMPTION		
100 % Load	lt/h	22,0
75 % Load	lt/h	16,2
50 % Load	lt/h	11,0
EXHAUST SYSTEM		
Maximum Temperature	°C	535
Exhaust Gas Flow	kg/h	533
Maximum Allowed Back Pressure	kPA	5
Exhaust Flange Size (Internal Dia.)	mm	70
AIR SYSTEM		
Intake Air Flow	m^3/h	427
Total Cooling Air Flow	m^3/h	132
STARTING SYSTEM		
Starter Motor	kW	3
Battery Capacity	Ah	72
Auxiliary Voltage	V	12

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.

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.