#### **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.

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## **Power Output Values**

Voltage	Sta	Standby Power (ESP)			Prime Power (PRP)		
	kVA	kW	Ampere	kVA	kW	Ampere	
400/231	45 kVA	36 kW	65	40 kVA	32 kW	58	

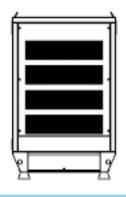
**Standby Power (ESP):** This rating is for the supply of continuous electrical power at variable load, in the event of utility power failure. No overload is permitted.

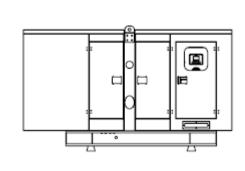
**Prime Power (PRP):** This rating is for the supply of continuous electrical power at variable load. There is no limitation on the annual hours in operation and 10% overload power can be supplied for 1 hour in 12.

# **Weight And Dimensions**

Туре	Width x Length x Height (mm)	Weight (kg)	Fuel Tank (Lt)	Sound dB(A) @1mt
Open	900x1600x1280 mm	860 kg	110 lt	ТВА
Soundproofed 900x2250x1480 mm		1070 kg	110 lt	77







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# **Engine**

Frequency		50 Hz		
Output Rating	kW	50		
Manufacturer and Model		FPT NEF45 AM2		
Fuel		Diesel		
Injection		Direct		
Aspiration		Naturally Aspirated		
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	9,8		
75 % Load	lt/h	7,35		
50 % Load	lt/h	4,9		
EXHAUST SYSTEM				
Maximum Temperature	°C	504		
Exhaust Gas Flow	kg/h	2 <mark>1</mark> 1		
Maximum Allowed Back Pressure	kPA	10		
Exhaust Flange Size (Internal Dia.)	mm	53		
AIR SYSTEM				
Intake Air Flow	m³/h	170		
Total Cooling Air Flow	m³/h	TBA		
STARTING SYSTEM		<b>y</b>		
Starter Motor	kW	3		
Battery Capacity	Ah	60		
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.

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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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