

#### **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	61 kVA	48,8 kW	88	55 kVA	44 kW	79

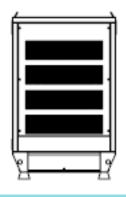
**Standby Power (ESP):** This rating is for the supply of continuous electrical power at variable load, in the event of utility power failure. No overload is permitted.

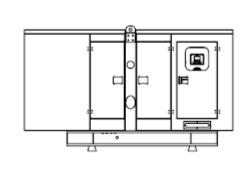
**Prime Power (PRP):** This rating is for the supply of continuous electrical power at variable load. There is no limitation on the annual hours in operation and 10% overload power can be supplied for 1 hour in 12.

# **Weight And Dimensions**

Туре	Width x Length x Height (mm)	Weight (kg)	Fuel Tank (Lt)	Sound dB(A) @7mt
Open	900x1750x1150 mm	810 kg	100 lt	-
Soundproofed 900x2400x1510 mm		1040 kg	100 lt	78







### **POWER IS OUR WORLD**

**50 Hz Diesel Generator Set** 

## **Engine**



Frequency		50 Hz		
Output Rating	Output Rating kW 49,4			
Manufacturer and Model		4TNV106-GGEA		
Fuel		Diesel		
Injection		Direct		
Aspiration		Naturel Aspirated		
Cylinders		4		
Bore and Stroke mm		106x125		
Displacement	placement It 4,412			
cooling Water				
Engine Oil Specification		SAE 15W40		
Compression Ratio	18			
Engine Oil Capacity(Sump Only)		14		
Coolant Capacity (incl.radiator) It		6		
Governor Mechanical				
Air Filter	Dry element			
FUEL CONSUMPTION				
100 % Load	lt/h	10,11		
75 % Load	lt/h	7,53		
50 % Load	lt/h	5,28		
EXHAUST SYSTEM				
Maximum Temperature	°C	540		
Exhaust Gas Flow	m³/h	2 <mark>05</mark>		
Maximum Allowed Back Pressure	kPA	<mark>12,20</mark>		
AIR SYSTEM				
Intake Air Flow	m³/min	TBA		
Total Cooling Air Flow m³/min		TBA		
STARTING SYSTEM				
Starter Motor kW		3,0		
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.

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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.

