# **POWER IS OUR WORLD**

# About Product

**IDE** 

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**

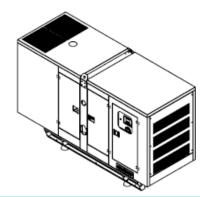
Voltage	Standby Power (ESP)			Prime Power (PRP)		
	kVA	kW	Ampere	kVA	kW	Ampere
400/231	220 kVA	176 kW	318	200 kVA	160 kW	289
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**Standby Power (ESP) :** This rating is for the supply of continuous electrical power at variable load , in the event of utility power failure. No overload is permitted.

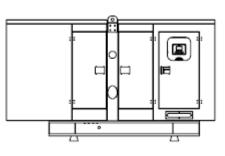
**Prime Power (PRP) :** This rating is for the supply of continuous electrical power at variable load. There is no limitation on the annual hours in operation and 10% overload power can be supplied for 1 hour in 12.

# **Weight And Dimensions**

Туре	Width x Length x Height (mm)	Weight (kg)	Fuel Tank (Lt)	Sound dB(A) @1mt
Open	1200x2400x1510 mm	1700 kg	275 lt	ТВА
Soundproofed	1200x3400x1810 mm	2060 kg	275 lt	79









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# **Perkins**<sup>®</sup>

#### Engine

Frequency		50 Hz		
Output Rating	kW	196,3		
Manufacturer and Model		Perkins 1106A-70TAG4		
Fuel		Diesel		
Injection		Direct		
Aspiration		Turbocharged & Aftercooled		
Cylinders		6		
Bore and Stroke	mm	105 x 135		
Displacement	lt	7,01		
Cooling		Water		
Engine Oil Specification		SAE 15W40		
Compression Ratio		16:1		
Engine Oil Capacity	lt	18		
Coolant Capacity (incl.radiator)	lt	21		
Governor		Electronical		
Air Filter		Dry element		
FUEL CONSUMPTION				
100 % Load	lt/h	45,8		
75 % Load	lt/h	34,7		
50 % Load	lt/h	23,1		
EXHAUST SYSTEM				
Maximum Temperature	°C	550		
Exhaust Gas Flow	m³/min	3 <mark>6,</mark> 8		
Maximum Allowed Back Pressure	kPA	6		
Exhaust Flange Size (Internal Dia.)	mm	72		
AIR SYSTEM				
Intake Air Flow	m³/min	13,2		
Total Cooling Air Flow	m³/min	282		
STARTING SYSTEM		Y		
Starter Motor	kW	4,2		
Battery Capacity	Ah	100		
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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INDUSTRIAL RANGE DATASHEET

**50 Hz Diesel Generator Set** 



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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.



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