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

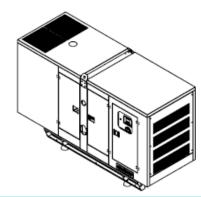
Maltana	Sta	Standby Power (ESP)			Prime Power (PRP)		
Voltage	kVA	kW	Ampere	kVA	kW	Ampere	
400/231	1900 kVA	1520 kW	2745	1750 kVA	1400 kW	2528	

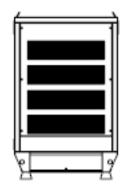
Standby Power (ESP) : This rating is for the supply of continuous electrical power at variable load , in the event of utility power failure. No overload is permitted.

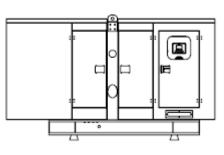
Prime Power (PRP) : This rating is for the supply of continuous electrical power at variable load. There is no limitation on the annual hours in operation and 10% overload power can be supplied for 1 hour in 12.

Weight And Dimensions

Туре	Width x Length x Height (mm)	Weight (kg)	Fuel Tank (Lt)	Sound dB(A) @1mt
Open	2400x6900x2450 mm	12800 kg	3500 lt	-
Soundproofed	2470x12220x3150 mm	17600 kg	3500 lt	93









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REV NO:2020-00

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POWER IS OUR WORLD

Engine

Manufacturer and ModelBaudouin 16M33G1900/5FuelDieselInjectionDirectAspirationTurbocharged and AftercooledCylinders16 VBore and StrokemmDisplacementItStaginationSAE 15W40CoolingWaterEngine Oil SpecificationSAE 15W40Compression Ratio15:1Engine Oil Capacity(Sump Only)ItIt400GoovernorECUAir FilterDry elementFUEL CONSUMPTIONEXHAUST SYSTEMMaximum Temperature°CMaximum Exhaust Back PressuremBar75Exhaust Gas Flowm³/min385,5Maximum Exhaust Back PressuremBar75Exhaust Flange Size (Internal Dia.)mm200AIR SYSTEMIthe Air Flow116,1Air Intake Air Flowm³/min116,1Air Intake Temperature Rise°C<5STARTING SYSTEMStarter MotorKWStarter MotorKW2X8,5Battery CapacityAh4x220	Frequency		50 Hz	
Fuel Diesel Injection Direct Aspiration Turbocharged and Aftercooled Cylinders 16 V Bore and Stroke mm Displacement 12 V Cooling Water Engine Oil Specification SAE 15W40 Compression Ratio 15:1 Engine Oil Capacity(Sump Only) It Coland Capacity (incl.radiator) It Afr Filter Dry element FUEL CONSUMPTION ECU 100 % Load It/h 364,3 75 % Load 100 % Load It/h 75 % Load It/h Maximum Temperature °C °C 750 Exhaust Gas Flow m³/min Maximum Exhaust Back Pressure mBar Maximum Exhaust Back Pressure mBar Intake Air Flow 116,1 Air Intake Temperature Rise °C STARTING SYSTEM Starter Motor Starter Motor kW 2X8,5 Battery Capacity Ah 4x220	Output Rating	kW	1680	
Injection Direct Aspiration Turbocharged and Aftercooled Cylinders 16 V Bore and Stroke mm 150 x 185 Displacement lt 52,3 Cooling Water Engine Oil Specification SAE 15W40 Compression Ratio 15:1 Engine Oil Capacity(Sump Only) lt 171 Coolant Capacity (incl.radiator) lt 400 Governor ECU Air Filter Dry element FUEL CONSUMPTION TO % Load It/h 364,3 75 % Load It/h 265,4 50 % Load It/h 179,7 EXHAUST SYSTEM Maximum Temperature °C 750 Exhaust Gas Flow m³/min 385,5 Maximum Exhaust Back Pressure mBar 75 Exhaust Gas Flow m³/min 116,1 Air Intake Temperature Rise °C <5 STARTING SYSTEM Starter Motor kW 2X8,5 Battery Capacity Ah 4x220	Manufacturer and Model		Baudouin 16M33G1900/5	
AspirationTurbocharged and AftercooledCylinders16 VBore and StrokemmDisplacementItDisplacementS2,3CoolingWaterEngine Oil SpecificationSAE 15W40Compression Ratio15:1Engine Oil Capacity(Sump Only)ItIt171Coolant Capacity (incl.radiator)ItGovernorECUAir FilterDry elementFUEL CONSUMPTION100 % LoadIt/h366,31t/h25 % LoadIt/h11/h265,450 % LoadIt/h40 mm200Exhaust Gas Flowm³/minMaximum Temperature°C75Exhaust Back PressureMaximum Exhaust Back PressuremBar75TomIntake Air Flowm³/minAir Intake Temperature Rise°C°C<5	Fuel		Diesel	
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Bore and Stroke mm 150 x 185 Displacement It 52,3 Cooling Water Engine Oil Specification SAE 15W40 Compression Ratio 15:1 Engine Oil Capacity(Sump Only) It 171 Coolant Capacity (incl.radiator) It 400 Governor ECU Air Filter Dry element FUEL CONSUMPTION 100 % Load It/h 364,3 75 % Load It/h 265,4 50 % Load It/h 179,7 EXHAUST SYSTEM Maximum Temperature °C 750 Exhaust Gas Flow m³/min 385,5 Maximum Exhaust Back Pressure mBar 75 Exhaust Flange Size (Internal Dia.) mm 200 AIR SYSTEM Intake Air Flow m³/min 116,1 Air Intake Temperature Rise °C <5 STARTING SYSTEM Starter Motor kW 2X8,5 Battery Capacity Ah 4x220	Aspiration		Turbocharged and Aftercooled	
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CoolingWaterEngine Oil SpecificationSAE 15W40Compression Ratio15:1Engine Oil Capacity(Sump Only)ItIt171Coolant Capacity (incl.radiator)ItGovernorECUAir FilterDry elementFUEL CONSUMPTION100 % LoadIt/h364,3364,375 % LoadIt/h100 % LoadIt/h11/h265,450 % LoadIt/h11/h385,5Maximum Temperature°C750FXhaust Gas FlowMaximum Exhaust Back PressuremBar75Exhaust Flange Size (Internal Dia.)Mar SYSTEMIntake Air FlowIntake Air Flowm³/minAir FlowsStarter MotorkW2X8,5Battery CapacityAh4x220	Bore and Stroke	mm	150 x 185	
Engine Oil SpecificationSAE 15W40Compression Ratio15:1Engine Oil Capacity(Sump Only)ItIt171Coolant Capacity (incl.radiator)ItGovernorECUAir FilterDry elementFUEL CONSUMPTION100 % LoadIt/h364,3364,375 % LoadIt/h200 % LoadIt/h110 % LoadIt/h365,5Maximum Temperature°C750EXHAUST SYSTEM75Maximum Temperature°C75Exhaust Gas FlowMaximum Exhaust Back PressuremBar75Exhaust Flange Size (Internal Dia.)Mar SYSTEM200AIR SYSTEM116,1Air Intake Temperature Rise°C°C<5	Displacement	lt	52,3	
Compression Ratio15:1Engine Oil Capacity(Sump Only)It171Coolant Capacity (incl.radiator)It400GovernorECUAir FilterDry elementFUEL CONSUMPTION100 % LoadIt/h364,3364,375 % LoadIt/h265,4265,450 % LoadIt/h75 % LoadIt/h200 % LoadIt/h201 % LoadIt/h202 % LoadIt/h203 % LoadIt/h204 % LoadIt/h205 % LoadIt/h205 % LoadIt/h206 % LoadMaximum Temperature°C750Exhaust Sas Flowm³/min385,5Maximum Exhaust Back PressureMaximum Exhaust Back PressuremBar75Exhaust Flange Size (Internal Dia.)AIR SYSTEM116,1Air Intake Air Flowm³/minAir Intake Air Flow°CStarter MotorkW2X8,5Battery CapacityAh4x220	Cooling		Water	
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EXHAUST SYSTEMMaximum Temperature°C750Exhaust Gas Flowm³/min385,5Maximum Exhaust Back PressuremBar75Exhaust Flange Size (Internal Dia.)mm200AIR SYSTEM116,1Intake Air Flowm³/min116,1Air Intake Temperature Rise°C<5	75 % Load	lt/h		
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Exhaust Gas Flowm³/min385,5Maximum Exhaust Back PressuremBar75Exhaust Flange Size (Internal Dia.)mm200AIR SYSTEM116,1Intake Air Flowm³/min116,1Air Intake Temperature Rise°C<5	EXHAUST SYSTEM			
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Exhaust Flange Size (Internal Dia.)mm200AIR SYSTEM	Exhaust Gas Flow	m³/min	38 <mark>5</mark> ,5	
AIR SYSTEMIntake Air Flowm³/minAir Intake Temperature Rise°CSTARTING SYSTEMStarter MotorkWStarter MotorAh4x220	Maximum Exhaust Back Pressure	mBar	75	
Intake Air Flow m³/min 116,1 Air Intake Temperature Rise °C <5 STARTING SYSTEM Starter Motor kW 2X8,5 Battery Capacity Ah 4x220	Exhaust Flange Size (Internal Dia.)	mm	200	
Air Intake Temperature Rise°C<5STARTING SYSTEMKW2X8,5Starter MotorkW2X8,5Battery CapacityAh4x220	AIR SYSTEM			
STARTING SYSTEMStarter MotorkWBattery CapacityAh4x220	Intake Air Flow	m³/min	116,1	
Starter MotorkW2X8,5Battery CapacityAh4x220	Air Intake Temperature Rise	°C	<5	
Battery Capacity Ah 4x220	STARTING SYSTEM		Y	
	Starter Motor	kW	2X8,5	
Auxiliary Voltage V 24	Battery Capacity	Ah	4x220	
	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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REV NO:2020-00



INDUSTRIAL RANGE DATASHEET

POWER IS OUR WORLD

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.



IDJ1900B

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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