

UND-BD Series UND-BD 660 Diesel Generator Set

Prime 600 kVA 480 kW

Standby Power (ESP): In case of failure of reliable mains supply, variable voltage is used to power the load. ESP is ISO8528 compliant. Overloading is not allowed.

Prime Power (PRP): It is used to supply variable electricity to the load for unlimited annual working hours. PRP is compatible with ISO 8528. It is used for 1 hour 10% overload in a 12-hour working period according to ISO3046.



50 HZ / 400 V

Universal Generator sets are designed for Standby Power (ESP) use, Prime Power (PRP) indicated in the table is added for information purposes

Engine

Standby

660 kVA

528 kW

Universal Generator uses high-tech engine brands in its engine products that are designed for heavy duty conditions, have high performance, low fuel consumption, are mounted on the fuel pump, have mechanical or electronic governors depending on the type, oil, air and fuel filters can be changed, comply with ISO 3046, ISO 8528, BS 5514, DIN 6271 standards.

ENGINE SPECIFICAT	IONS
Engine Brand	BAUDOUIN
Engine Model	8M21G660/5
Engine Power	580 kW / 530 kW (Standby / Prime)
Speed (rpm)	1500 rev/min
Cycle	4
Number of Cylinders	8 V
Displacement	19,6 lt
Bore & Stroke (mm x mm	127x165
Compression Ratio	15,0 : 1
Governor Type	ECU
Induction System	Turbocharged - Aftercooler
Combustion System	Direct
Cooling System	Water
Lubrication Capacity	45 It
Coolant Capacity	101 lt
Fuel %100	124.2 lt
Consumption %75	95.4 lt
(liter / hour) %50	64.7 lt

Generator powers are declared according to 25°C temperature, 30% relative humidity environment and 100 kPa barometric pressure and conditions. Power loss may occur in generator sets depending on the environment in which they will operate. For power calculations for special operating conditions, please contact Universal Generator factory or the nearest authorized Universal Generator authorized dealer.

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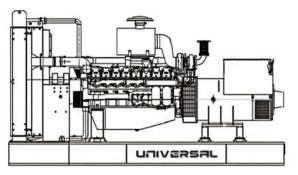


Alternator 4

Universal Generator uses high technology alternator brands in its alternator products with steel body design, robust structure, maintenance-free bearing system (brushless), self-alert system, electronic type voltage regulator, BS 4999-5000; CEI EN 60034-1; IEC 60034-1; VDE 0530, OVE M10, NF 51-100,111; NEMA MG 1.22. Standards. The selection of alternator to be used in generator set production is optional and may vary depending on the project.

ALTERNATOR SPECIFIC	CATIONS
Power Factor (cos φ)	0.8
Insulation Class	Н
Protection	IP21 - IP23
Output Voltage	231 / 400 VAC
Frequency (HZ)	50 HZ
Permanent Voltage Reg. (±)	1%
Number of Poles	4
Design	AVR Bruhless
Number of Bearings	Single
Short Circuit Current	%300 (10 sec.)
Productivity (%)	90
Connection Type	Star
Overload Uptime	110% - 1 hour
Harmonic Degradation (%)	< 1 %

ENGINE & ALTERNATOR OPTIONS				
Circulation Type Heater	Oil Heater			
Automatic Fuel Filling	Fuel - Water Separator			
Manual Oil Filling Pump	Alternator with PMG and Dual AVR			
Manual Oil Drain	Medium Voltage Alternator			
Automatic Oil Drain	Single Phase Option			
Tropical Type Radiator	Alternator Output Switch			
Electronical Governor	Alternator Winding Heaters (Anti-humidity)			
Lightning Protection	Short Circuit Voltage Interrupter			



COOLENT SYSTEMS

Universal Generator uses radiators consisting of an expansion tank and a cooling fan, which keep the generator components at the appropriate temperature for maximum efficiency, high performance and effective use, in accordance with international standards and regulations.

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Control System ____

Universal Generator uses generator control units with microprocessors that can be programmed as standard in its sets, which can monitor all measurement values and alarm messages and provide protection. Control panels are manufactured from A1 quality galvanized sheet metal and painted with electrostatic powder paint against corrosion. In order to prevent unauthorized interventions, there is a lock system on the covers of the control panels and there is a lighting button that provides illumination inside the panel and inside the cabin.

In addition to the standard control panels, sets

suitable for various operating variations are also manufactured in accordance with the demands of the customers and the operating conditions of the generator.

CONTROL SYSTEM STANDARD FEATURES

Automatic Control System with LCD Screen

Multifunctional Business Opportunity

Different Language Support

Programmable via USB. RS-232 and GSM

Fuel Level Control

Engine Block Water Heater Control

Summary Fault/Event Display, Record Keeping

Current Unbalance Protection

Automatic Fuel Pump Control

Over Power and Reverse Power Protection

Idle Speed Control

Fine Speed Adjustment (Some ECUs)

Emergency Stop Button









OPTIONS OPTIONS				
Automatic Transfer Switch	Analog Indicators			
Circuit Breaker	Motorized Circuit Breaker			
Electronical Governor	Audio Warning Systems			
Synchronization System	Remote Communication Module			
Earthquake Sensor	Charge Ammeter			
Remote Monitoring and Control Module	Special Board Design			

Chassis, Canopy & Fuel Tank

Universal Generator chassis have a modular design and are manufactured from steel, the tank is mounted to the chassis with bolts. Engine alternator radiator connections are made with vibration mounts and vibration is reduced to a minimum level. Special chassis and fuel tank designs can be made in line with customer demands.

CHASSIS
High Quality Steel with Improved Corrosion Resistance
Modular Design Providing Easy Accessibility&Maintenance
Anti-vibration Wedges
Electrostatic Powder Paint
Fuel Tank Integrated into the Chassis
Fuel Indicator Level
Fuel Drain Valve



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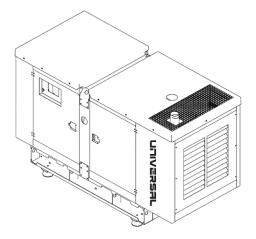


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CANOPY
Modular Design Providing Easy Accessibility&Maintenance
Emergency Stop Button on Canopy
Transparent Control Panel Window
Fireproof Acoustic Sponge Providing Sound Insulation
Corrosion and Rust Resistant Electrostatic Powder Paint
Hidden Exhaust Muffler in Cabin
Homogeneous Cooling Providing Air Ducts
Canopy Interior Lighting Possibility



Fireproof acoustic sponges used in the production of sound insulation cabins and providing sound insulation comply with ISO 9001 and IATF 16949:2016 regulations.

OP	TIONS
Soundproofing Canopy in Special Size and Color	Super Quiet Isolation Canopy
Chassis in Special Size and Color	Container Type Sound Insulation Canopy
External Type Fuel Tank	Trailer
Critical / Hospital Type Silencer	Double Walled Fuel Tank
Waste Collection Pan	Epoxy Paint

Quality Certificates

All generator sets produced by Universal Generator have;

ISO 9001-2015, ISO 14001-2015, ISO 45001-2018 Management Systems certificates

2000/14/EC Noise Directive conformity certificate

TSE standards conformity certificate

After Sales Service Competence Certificate

All generating sets produced by Universal Generator have CE Declaration.

Technical informations and values complies with;

Machinery Directive 2006/42/EC,

Electromagnetic Compatibility Directive 2014/30/EU,

2014/35/EU Low Voltage Directive,

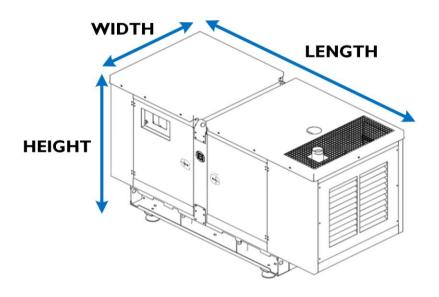
EN ISO 8528-13:2016, EN ISO 12100:2010, EN ISO 14120:2015, EN ISO 13851:2019, EN ISO 13854:2019, EN 61000-6-2:2019, EN 61000-6-4:2019, EN 60204-1:2018 regulations and ISO3046, NEMA MG1.22, IEC 600341, BS 49995000, VDE 0530 standards.

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Technical Dimensions



UJST (standard canopy dimensions are specified. Dimensions for UJBT (heavy-duty canopy) and UJPT (project type canopy) vary.

CABINET GROUP					
WIDTH	LENGTH	HEIGHT	WEIGHT	FUEL TANK	
1900 mm	4000 mm	2990 mm	4790 kg	1370 lt	
UNCABINET GROUP					
	UNG	CABINET GRO	OUP		
WIDTH	UN (LENGTH	CABINET GRO	OUP WEIGHT	FUEL TANK	

Documentation

Documents included in Universal Generator sets;

Diesel generator set operation and maintenance manual

Diesel engine use and maintenance manual

Alternator use and maintenance manual

Control panel connection diagram

General maintenance schedule

Generator factory load test report

Service Information Form & Running-in Maintenance Form

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^{*} The warranty certificate and warranty conditions are located in the last section of the operation and maintenance manual booklet supplied with the generator set.