



UND-M Series 50 HZ / 400 V

UND-M 1000 Diesel Generator Set

Standby 1000 kVA 800 kW **Prime** 900 kVA 720 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.



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

Engine

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 SPECIFICATIONS

Engine Brand	MESMAX			
Engine Model	JS12V720TAD			
Engine Power	792 kW / 720 kW (Standby / Prime)			
Speed (rpm)	1500 d/dk			
Cycle	4			
Number of Cylinders	12 - V Type			
Engine Capacity	26,6 lt			
Bore & Stroke (mm x mm	138x168			
Compression Ratio	16:01			
Governor Type	Electronic			
Induction System	Turbocharge - Intercooler			
Combustion System	Direct			
Cooling System	Water			
Lubrication Capacity	42 lt			
Coolant Capacity	123 l t			
Fuel %100	192 l t			
Consumption %75	143 l t			
(liter / hour) %50	98 l t			

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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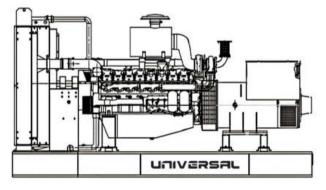
MESMAX Series



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 SPECIFICATIONS				
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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MESMAX Series

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.

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







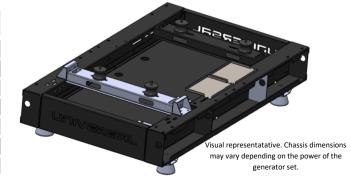


OPTIONS				
Automatic Transfer Switch	Analog Indicators			
Circuit Breaker	Motorized Circuit Breaker			
Electronical Governor	Audio Warning Systems			
Synchronization System	Remote Communication Module			
Earthquake Sensor	Charge Ammeter			
Remote Monitoring and Control Module	Special Board Design			

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.

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



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CHASSIS

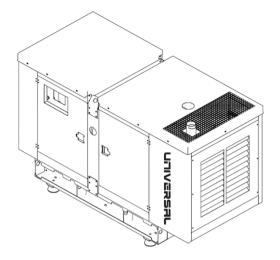
Fuel Indicator Level



Canopy Interior Lighting Possibility

MESMAX Series

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



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

OPTIONS				
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.

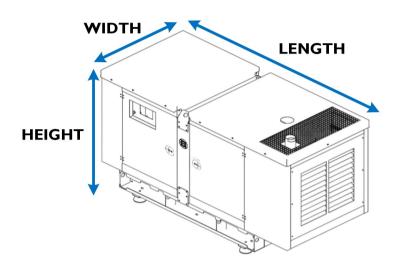
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Technical Dimensions



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		
2200 mm	4500 mm	3200 mm	5120 kg	1860 l t		
UNCABINET GROUP						
	UN	ICABINET G	ROUP			
WIDTH	UN LENGTH	NCABINET G	ROUP 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

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

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