

UND-SI Series UND-SI 35 Diesel Generator Set

50 HZ / 400 V



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	SIDA
Engine Model	4DW1
Engine Power	30 kW / 27 kW (Standby / Prime)
Speed (rpm)	1500 (rpm/min.)
Time	4
Number of Cylinders	4
Engine Capacity	2,77 lt
Bore & Stroke (mm x mn	93x102
Compression Ratio	19:01
Governor Type	Mechanical
Induction System	Natural
Induction System Combustion System	Natural Direct
Combustion System	Direct
Combustion System Cooling System	Direct Water Cooling
Combustion System Cooling System Lubrication Capacity	Direct Water Cooling 7,7 It
Combustion System Cooling System Lubrication Capacity Coolant Capacity	Direct Water Cooling 7,7 It 5 It

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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Enerji Hayattır



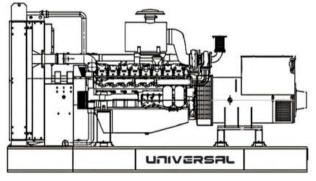


Alternator

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 SPECIF	CICATIONS
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.

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 Collifor
Fine Speed Adjustment (Some ECUs)
Emergency Stop Button

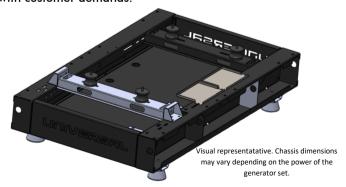
Idle Speed Control

OPTION	NS
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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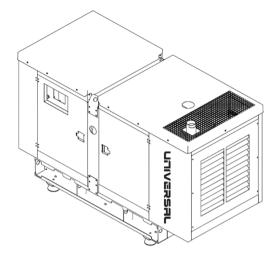
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CANOPY Modular Design Providing Easy Accessibility&Maintenance Emergency Stop Button on Canopy Transparent Control Panel Window Fireproof Acoustic Sponge Providing Sound Insulation Corrosion and Rust Resistant Electrostatic Powder Paint

Homogeneous Cooling Providing Air D

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.

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.

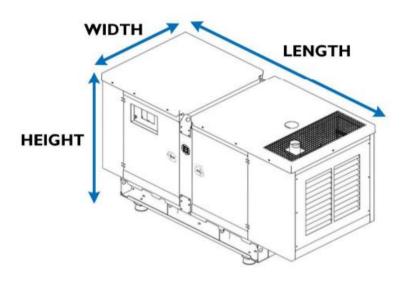
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Technical Dimensions



JUST (standard canopy dimensions are specified. Dimensions for UJPT (project type canopy) vary.

CABINET GROUP					
WIDTH	LENGHT	HEIGHT	WEIGHT	FUEL TANK	
1000 mm	2350 mm	1550 mm	985 kg	125 lt	
	U	NCABINET O	RUP		
WIDTH	U I LENGHT	NCABINET (GRUP 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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