

UND-YD Series UND-YD 40 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

YANGDONG
Y4102D
36 kW / 33 kW (Standby / Prime)
1500 (rpm/min.)
4
4
3,707 l t
100x118
18:01
Mechanic / Electronic
Mechanic / Electronic Natural
Natural
Natural Direct
Natural Direct Water Cooling
Natural Direct Water Cooling 13 It
Natural Direct Water Cooling 13 It 16 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.

UNIVERSAL GENERATOR IS CONTINUOUSLY IMPROVING ITS PRODUCT GROUPS AND HAS THE RIGHT TO MAKE CHANGES IN PRODUCT CONFIGURATIONS WITHOUT NOTICE.

Enerji Hayattır



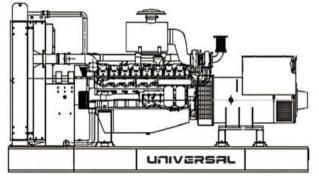


Alternator

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	ICATIONS
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.

UNIVERSAL GENERATOR IS CONTINUOUSLY IMPROVING ITS PRODUCT GROUPS AND HAS THE RIGHT TO MAKE CHANGES IN PRODUCT CONFIGURATIONS WITHOUT NOTICE.

Enerji Hayattır



2



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

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

Automatic Control System with LCD Screen

Current Unbalance Protection

Automatic Fuel Pump Control

Over Power and Reverse Power Protection

Idle Speed Control

Fine Speed Adjustment (Some ECUs)

Emergency Stop Button







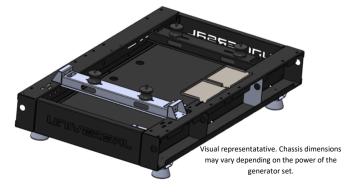


OPTIONS				
Automatic Transfer Switch	Analog Indicators			
Circuit Breaker	Motorized Circuit Breaker			
Electronical Governor	Audio Warning Systems			
Synchronization System	Remote Communication Module			
Earthquake Sensor	Charge Ammeter			
Remote Monitoring and Control Module	Special Board Design			

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.

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



UNIVERSAL GENERATOR IS CONTINUOUSLY IMPROVING ITS PRODUCT GROUPS AND HAS THE RIGHT TO MAKE CHANGES IN PRODUCT CONFIGURATIONS WITHOUT NOTICE.





3



CANOPY

Modular Design Providing Easy Accessibility&Maintenance

Emergency Stop Button on Canopy

Transparent Control Panel Window

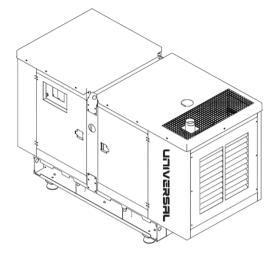
Fireproof Acoustic Sponge Providing Sound Insulation

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.

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,

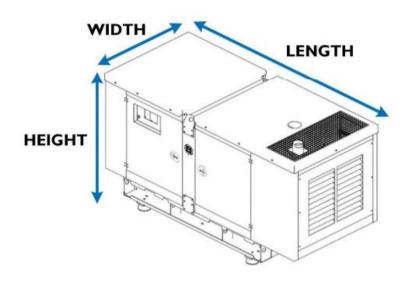
EN ISO 8528-13:2016, EN ISO 12100:2010, EN ISO 14120:2015, EN ISO 13851:2019, EN ISO 13854:2019, EN 61000-6-2:2019, EN 61000-6-4:2019, EN 60204-1:2018 regulations and ISO3046, NEMA MG1.22, IEC 600341, BS 49995000, VDE 0530 standards.

UNIVERSAL GENERATOR IS CONTINUOUSLY IMPROVING ITS PRODUCT GROUPS AND HAS THE RIGHT TO MAKE CHANGES IN PRODUCT CONFIGURATIONS WITHOUT NOTICE.

Enerji Hayattır



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	845 kg	125 lt		
	Ul	NCABINET O	RUP			
WIDTH	U I LENGHT	NCABINET C	RUP 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.

UNIVERSAL GENERATOR IS CONTINUOUSLY IMPROVING ITS PRODUCT GROUPS AND HAS THE RIGHT TO MAKE CHANGES IN PRODUCT CONFIGURATIONS WITHOUT NOTICE.





RV/UNDYD202512EN