



UK20E

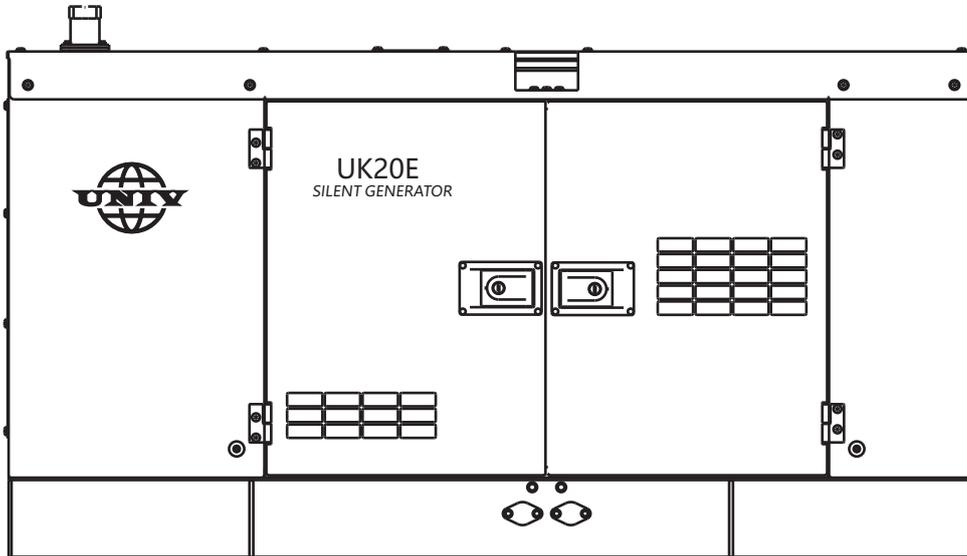
UNIVPOWER SILENT SERIES

POWER OUTPUT

Prime Rating — 18.1 kW (18.1 kVA)

Standby Rating — 20 kW (20 kVA)

Single-Phase, 60 Hertz, 1.0 PF



STANDARD FEATURES

- Heavy duty, 4-cycle, variable speed fan, diesel engine provides maximum reliability.
- Brushless alternator reduces service and maintenance requirements. Class H protection.
 - Open delta alternator design provides virtually unlimited excitation for maximum motor starting capability.
 - Automatic voltage regulator (AVR) provides precise regulation.
- Electronic governor system maintains frequency to $\pm 0.25\%$.
- Full load acceptance of standby nameplate rating in one step
- Soundproof, weather resistant, steel housing provides operation at 65dB (A) at 7meters. Fully lockable enclosure allows safety operation. Outdoor operation available.
- Internal fuel tank with direct observing glass, and fuel level meter display on control panel
E-coat and powder coat paint provides durability and weather protection.
- Digital engine gauges including oil pressure, water temperature, battery volts, engine speed, and fuel level.
- Analog generator instrumentation including Ampere meter,
- Voltage meter, frequency meter, ammeter phase selector switch, voltmeter phase selector switch. Analog generator instrumentation and regulator adjustment.
- Deepsea/Comap professional generator controller.
 - High visibility LCD display with heated screen and alphanumeric readout.
 - IP65 Protection standard, operational temperature range of -40° to 85° C.
 - Modbus interface for gauge panel and expansion options.
 - DPF cleaningcycle indication.
 - Log record for inspection
- Automatic safety shutdown system monitors the water temperature, engine oil pressure, low coolant, low DEF, overspeed, and overcrank. Warning lights indicate abnormal conditions.
- Fuel/water separator. Removes condensation from fuel for extended engine life.
- Emergency stop switch — when manually activated, shuts down in any emergency.

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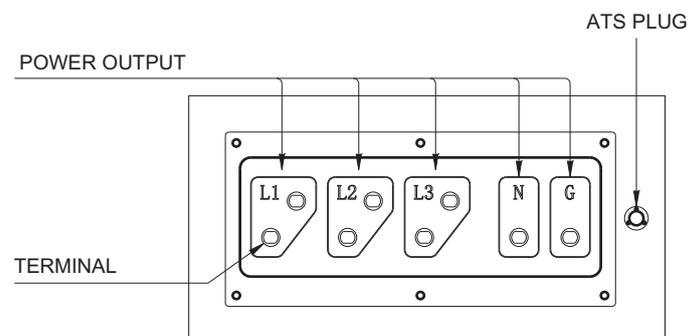
UNIV POWER DECIBELLEVELS

Revolving field, self ventilated weatherproof Normal conversation allows substantially lower operating noise levels than competitive designs. UNIV Gensets good for home, construction sites, residential, hospital, etc.

- 90 — Subway / truck traffic
- 80 — Average city traffic
- 70 — Inside car at 60 mph
- 60 — Air conditioner at 6m
- 50 — Normal conversation

65.0
DECIBELS

GENERATOR OUTPUT PANEL





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SPECIFICATIONS

Generator Specifications	
Model	Revolving field, self-ventilated weatherproof
Armature Connection	Star with Neutral
Phase	1
Standby Output	20 KW (20KVA)
Prime Output	18.1 KW (18.1KVA)
Power Factor	1.0
Voltage Regulation (No load to full load)	±0.5%
Generator RPM	1800
Frequency	60 Hz
No. of Poles	4
Excitation	Brushless with AVR
Frequency Regulation: No Load to Full Load	Isochronous under varying loads from no load to 100% rated load
Frequency Regulation: Steady State	±0.25% of mean value for constant loads from no load to full load.
Insulation	Class H
Sound Level dB(A) Full load at 7M	65

Amperage	
Rated Voltage	Maximum Amps
3Ø Volt 254/440	32.6 Amps
3Ø Volt 127/220	34.3 Amps
Main Line Circuit Breaker Rating	63 Amps
Over Current Relay Trip Set Point 220V Mode	70 Amps

Fuel System	
Fuel Tank Capacity	19.8 gallons (75 liters)
Fuel Consumption	L / h
At full load	4.66
At 3/4 load	3.6
At 1/2 load	2.6
At 1/4 load	1.3

Control system	
Controller Brand	Deepsea
Model	DSE4520
Module	Manual/Auto start/stop module
Standard function	Engine control
	Generator monitoring
	Generator protection
	Specification
Display	Frequency
	Battery voltage
	Running hour
Warning/shutdown	under/over voltage
	under/over speed
	under/over frequency
	Low oil pressure
	High water temperature
Communication port	USB

Engine Specifications	
Make / Model	Kubota / V2203
Emissions	/
Starting System	Electric
Design	4-cycle, water cooled, direct injection, natural intake
Displacement	2.197 liters
No. cylinders	4
Bore x Stroke	87 x 92.5 mm
Gross Engine Power Output	32.9 hp (24.2 kW)
Compression Ratio	23.0 : 1
Engine Speed	1800 rpm
Overspeed Limit	2070 rpm
Oil Capacity	2.56 gallons (9.7 liters)
Coolant Capacity	2.64 gallons (10.6 liters)
Battery	12V 60Ah x 1

Alternator	
Alternator Brand	Stamford
Alternator Model	P1144D
Excitation	Brushless, Self-Excited system
Capacity(KVA)	22.4kva
Power(KW)	22.4kw
Efficiency(%)	88%
Insulation class	Class H
Protection class	Ip23
Steady state voltage regulation	±1%
Voltage control	AVR

WARRANTY*

Generator

12 months from date of purchase or 1000 hours (whichever occurs first).

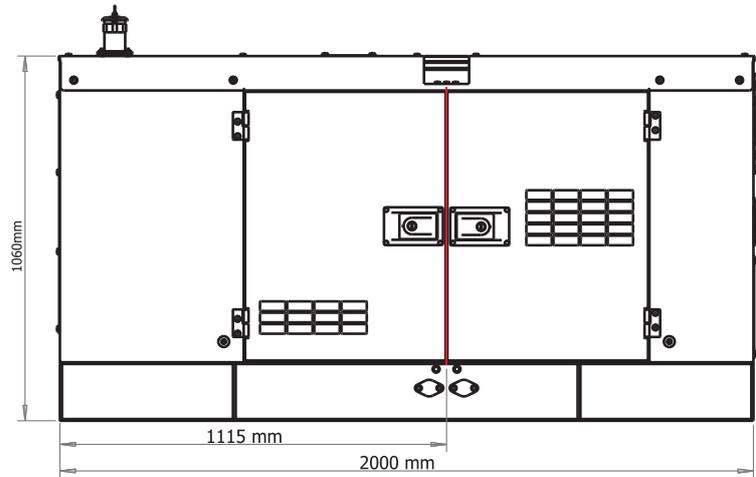
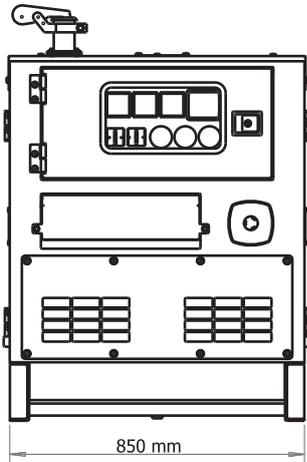
NOTICE

Enough Air flow is extremely important to Generator operation. Improper connection can cause electrocution and/or property damage. Do not connect to any electrical system except through an approved device. Specifications are subject to change without notice.



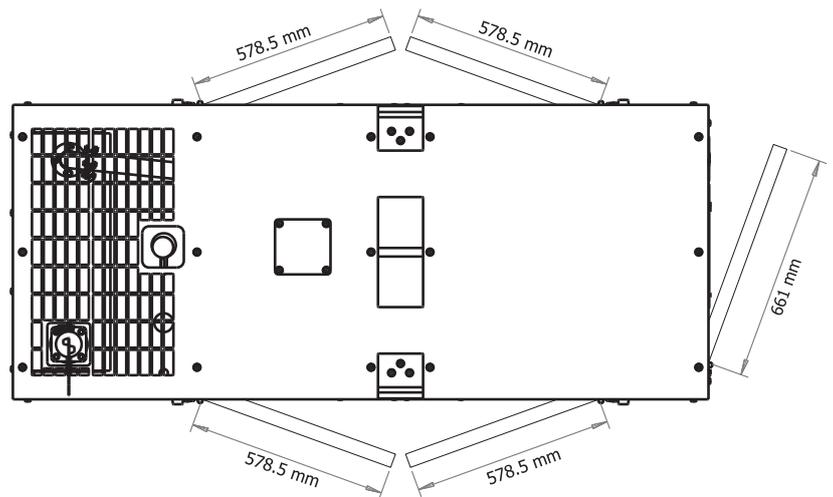
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Weight

Dry Weight	1543 lbs. (700 kg)
Wet Weight	1653 lbs. (750 kg)
Max. Lifting Point capacity	3086 lbs. (1400 kg)



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