

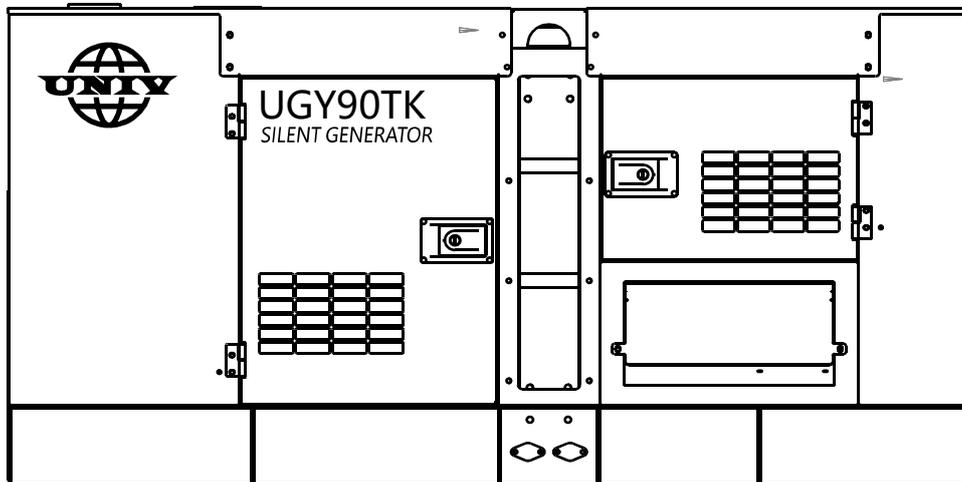


# UGY90TK

## UNIVPOWER SILENT SERIES

### POWER OUTPUT

Prime Rating — 64 kW (80kVA)  
 Standby Rating — 70kW (87.5kVA)  
 3-Phase, 60 Hertz, 0.8 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 69dB (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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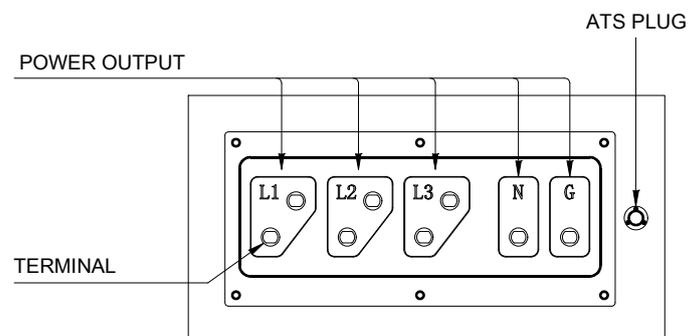
#### UNIV POWER DECIBELLEVELS

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

- 90 — Subway / truck traffic
- 80 — Average city traffic
- 70 — Inside car at 60 mph
- UNIVGenset at 7m
- 60 — Air conditioner at 6m
- 50 — Normal conversation

**69.0**  
DECIBELS

### GENERATOR OUTPUT PANEL





# UGY90TK

## UNIVPOWER SILENT SERIES

### SPECIFICATIONS

Generator Specifications	
Model	Revolving field, self-ventilated weatherproof
Armature Connection	Star with Neutral
Phase	3
Standby Output	70 KW (87.5KVA)
Prime Output	64KW (80KVA)
Power Factor	0.8
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	68.8

Amperage	
Rated Voltage	Maximum Amps
3Ø Volt 254/440	114.8Amps
3Ø Volt 127/220	229.6Amps
Main Line Circuit Breaker Rating	250Amps
Over Current Relay Trip Set Point 220V Mode	275Amps

Fuel System	
Fuel Tank Capacity	38.3 gallons (145 liters)
Fuel Consumption	L / h
At full load	16.5
At 3/4 load	13.2
At 1/2 load	9.0
At 1/4 load	4.9

Control system	
Controller Brand	SmartGen
Model	HGM420
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	LR4B3Z-D60F
Emissions	/
Starting System	Electrical start
Design	4 cylinder, 4-cycle, water cooled, direct injection, Turcharged
Displacement	4.58Liters
No. cylinders	4
Bore x Stroke	108*125mm
Gross Engine Power Output	99hp (74 kW)
Compression Ratio	17:1
Engine Speed	1800 rpm
Overspeed Limit	2050rpm
Oil Capacity	3.9gallons (14liters)
Coolant Capacity	1.59gallons (6liters)
Battery	12V 80Ah x 1

Alternator	
Alternator Brand	KWISE
Alternator Model	S224G54C6
Excitation	Brushless, Self-Excited system
Capacity(KVA)	81kva
Power(KW)	64.8kw
Efficiency(%)	87.5%
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 running hours (whichever occurs first).

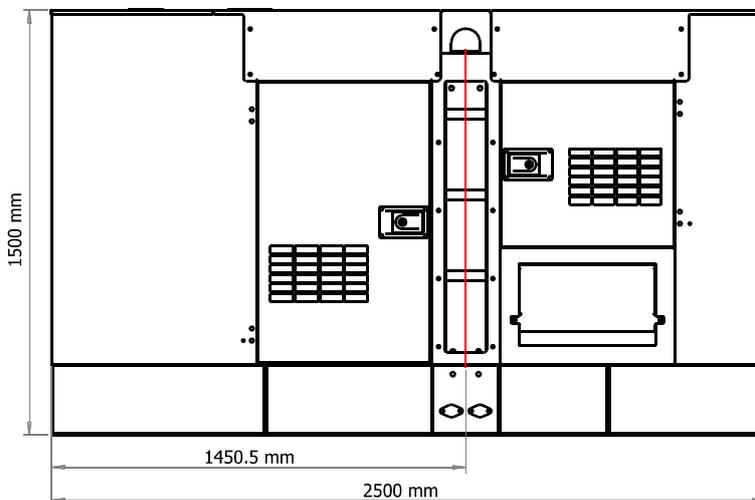
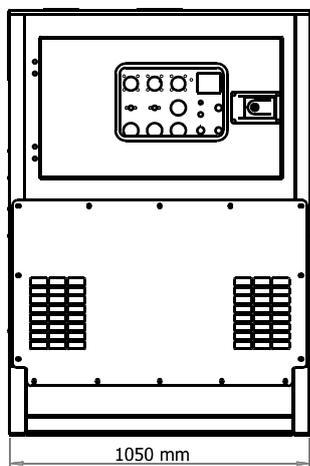
### NOTICE

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.

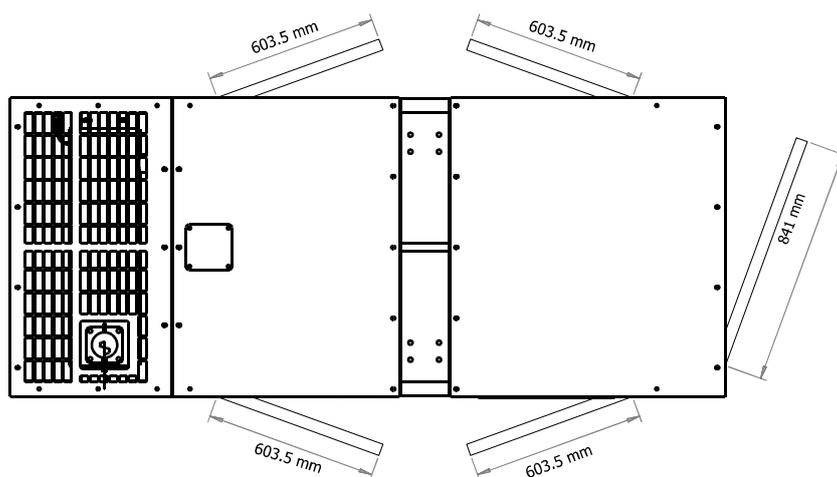


# UGY90TK

## UNIVPOWER SILENT SERIES



Weight	
Dry Weight	1400 kg
Wet Weight	1625 kg
Max. Lifting Point capacity	3705 kg



Manufactured by  
**Zhejiang Universal Machinery Co., Ltd**  
Add: No 18-9 Nanshan Road, Qujiang Zone,  
Quzhou city, Zhejiang Province, CN  
Tel: 0086-570-3377022  
Fax: 0086-570-3377023  
Website: [www.univpower.com](http://www.univpower.com)