

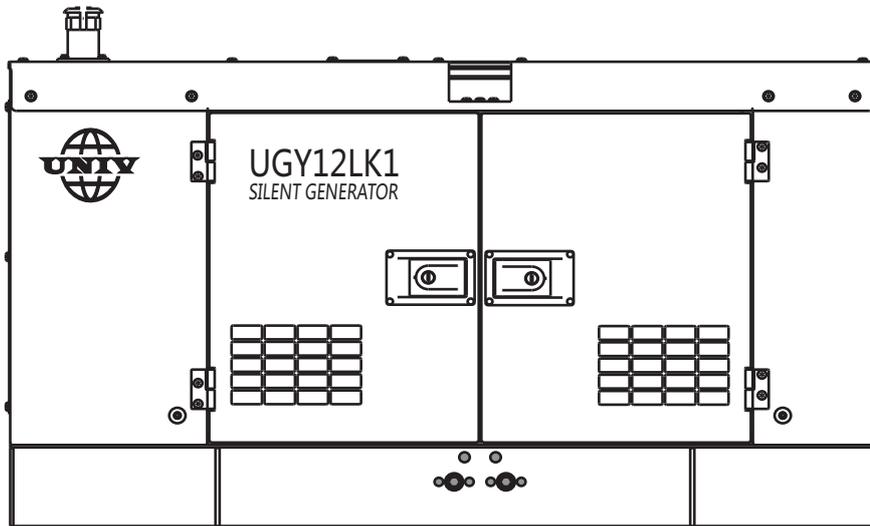


UGY12LK1

UNIVPOWER SILENT SERIES

POWER OUTPUT

Prime Rating — 10 kW (10 kVA)
 Standby Rating — 12 kW (12 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 62dB (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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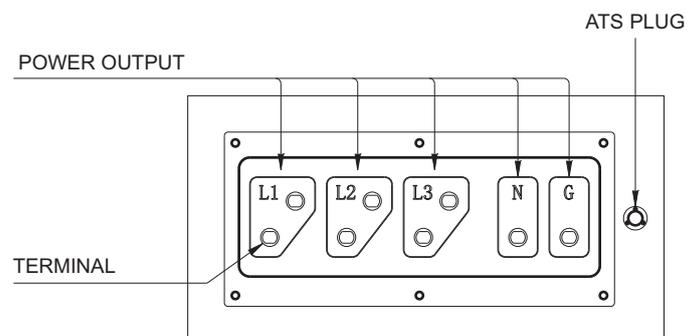
UNIV POWER DECIBELLEVELS

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
- 62.0 — UNIVGenset at 7m
- 60 — Air conditioner at 6m
- 50 — Normal conversation

62.0
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 | 12 KW (12KVA) |
| Prime Output | 10 KW (10KVA) |
| 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 | 62 |

| Amperage | |
|---|--------------|
| Rated Voltage | Maximum Amps |
| 1Ø Volt 110/220 | 54.5 Amps |
| Main Line Circuit Breaker Rating | 63 Amps |
| Over Current Relay Trip Set Point 220V Mode | 70 Amps |

| Fuel System | |
|------------------------------|---------------------------|
| Maximum Fuel Flow (per hour) | 1.27 gallons (4.8 liters) |
| Fuel Tank Capacity | 14.8 gallons (56 liters) |
| Fuel Consumption | L / h |
| At full load | 2.4 |
| At 3/4 load | 1.9 |
| At 1/2 load | 1.5 |
| At 1/4 load | 1.3 |

| Control system | |
|--------------------|-------------------------------|
| Controller Brand | Smartgen |
| Model | HGM420N |
| 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 | LD/ KM385BD |
| Emissions | / |
| Starting System | Electrical start |
| Design | 3 cylinder, 4-cycle, water cooled, direct injection, natural intake |
| Displacement | 1.5 liters |
| No. cylinders | 3 |
| Bore x Stroke | 85*90mm |
| Gross Engine Power Output | 17.7hp (13.2 kW) |
| Compression Ratio | 23:1 |
| Engine Speed | 1800 rpm |
| Overspeed Limit | 2070 rpm |
| Oil Capacity | 2.35 gallons (8.9 liters) |
| Coolant Capacity | 1.46 gallons (5.5 liters) |
| Battery | 12V 60Ah x 1 |

| Alternator | |
|---------------------------------|--------------------------------|
| Alternator Brand | KWISE |
| Alternator Model | S164G108B3 |
| Excitation | Brushless, Self-Excited system |
| Capacity(KVA) | 13kva |
| Power(KW) | 13kw |
| Efficiency(%) | 80% |
| 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)

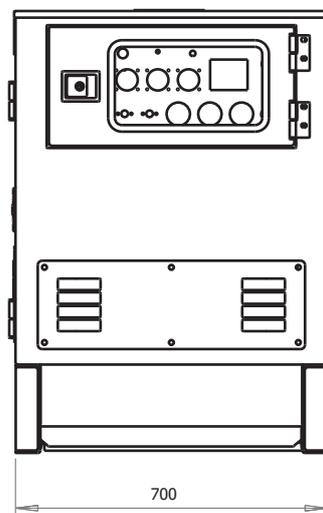
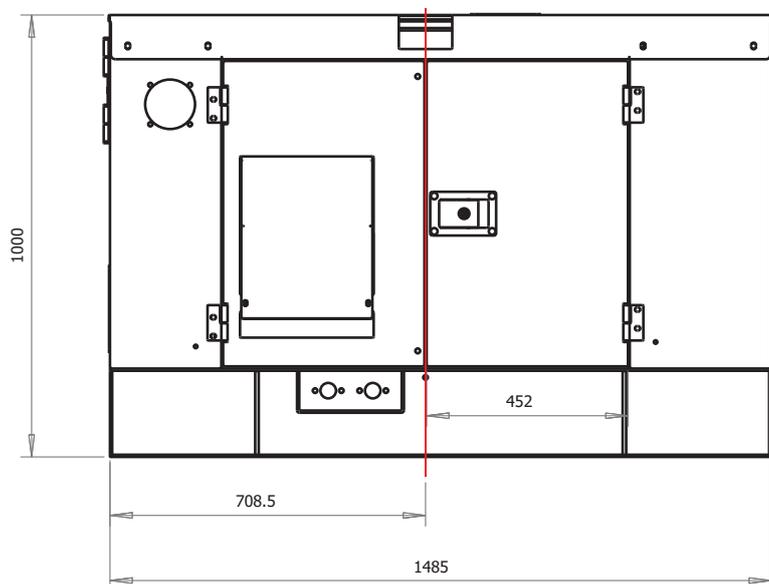
NOTICE

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.

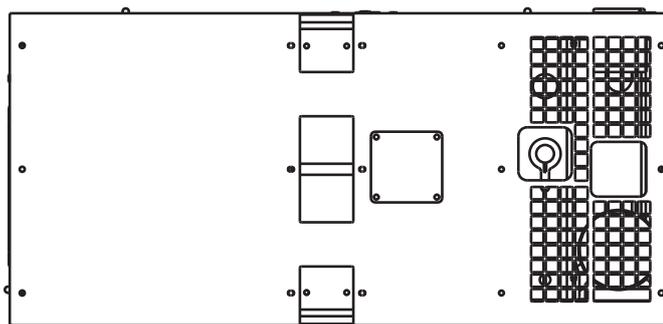


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UNIVPOWER SILENT SERIES



| Weight | |
|-----------------------------|---------|
| Dry Weight | 560 kg |
| Wet Weight | 600kg |
| Max. Lifting Point Capacity | 1000 kg |



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