

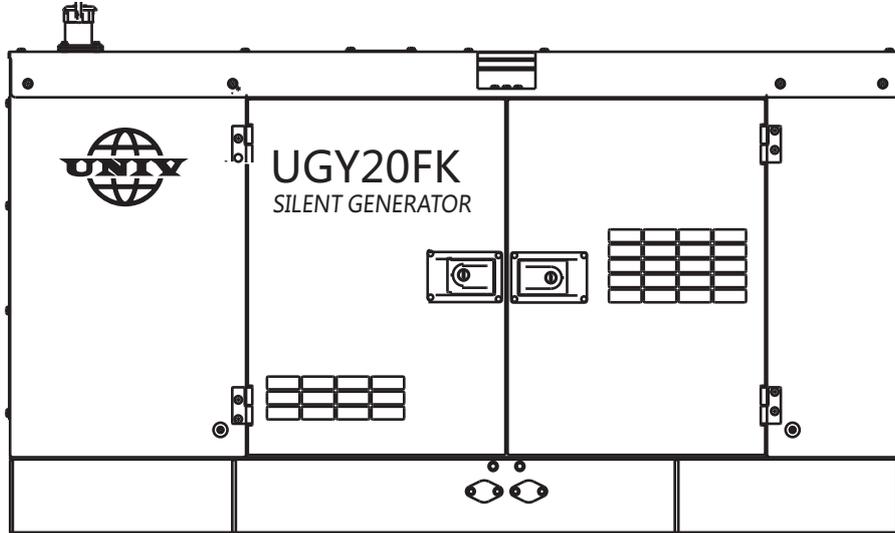


# UGY20FK

## UNIVPOWER SILENT SERIES

### POWER OUTPUT

Prime Rating — 19 kW (19 kVA)  
 Standby Rating — 21kW (21kVA)  
 1-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 60dB (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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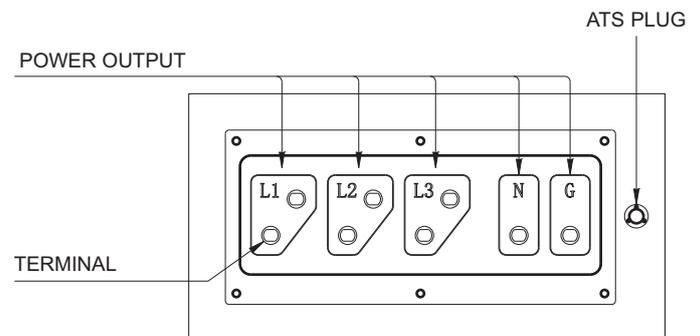
#### UNIV POWER DECIBELLEVELS

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

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

**60.0**  
DECIBELS

### GENERATOR OUTPUT PANEL





# UGY20FK

## UNIVPOWER SILENT SERIES

### SPECIFICATIONS

| Generator Specifications                   |  |
|--|--|
| Model                                      | Revolving field, self-ventilated weatherproof                      |
| Armature Connection                        | Star with Neutral  |
| Phase                                      | 1  |
| Standby Output                             | 21 KW (21 KVA)   |
| Prime Output                               | 19 KW (19 KVA)   |
| 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          | 60   |

| Amperage                                    |              |
|---|--------------|
| Rated Voltage                               | Maximum Amps |
| 1Ø Volt 110/220                             | 86.3 Amps    |
| Main Line Circuit Breaker Rating            | 100 Amps     |
| Over Current Relay Trip Set Point 220V Mode | 110 Amps     |

| Fuel System        |                          |
|--------------------|--------------------------|
| Fuel Tank Capacity | 26.9 gallons (45 liters) |
| Fuel Consumption   | L / h                    |
| At full load       | 5                        |
| At 3/4 load        | 3.35                     |
| At 1/2 load        | 2.5                      |
| At 1/4 load        | 1.5                      |

| 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              | FORWARD/4JB1  |
| Emissions                 | /   |
| Starting System           | Electrical start  |
| Design                    | 4 cylinder, 4-cycle, water cooled, direct injection, natural intake |
| Displacement              | 2.7 Lliters   |
| No. cylinders             | 4   |
| Bore x Stroke             | 90*100mm  |
| Gross Engine Power Output | 43.5 hp (32 kW)   |
| Compression Ratio         | 18.2:1  |
| Engine Speed              | 1800 rpm  |
| Overspeed Limit           | 2070 rpm  |
| Oil Capacity              | 1.85 gallons (7 liters)   |
| Coolant Capacity          | 2.26 gallons (8.54 liters)  |
| Battery                   | 12V 60Ah x 1  |

| Alternator                      |                                |
|---------------------------------|--------------------------------|
| Alternator Brand                | KWISE                          |
| Alternator Model                | S184G16C6                      |
| Excitation                      | Brushless, Self-Excited system |
| Capacity(KVA)                   | 19.2kva                        |
| Power(KW)                       | 19.2kw                         |
| Efficiency(%)                   | 85%                            |
| 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)

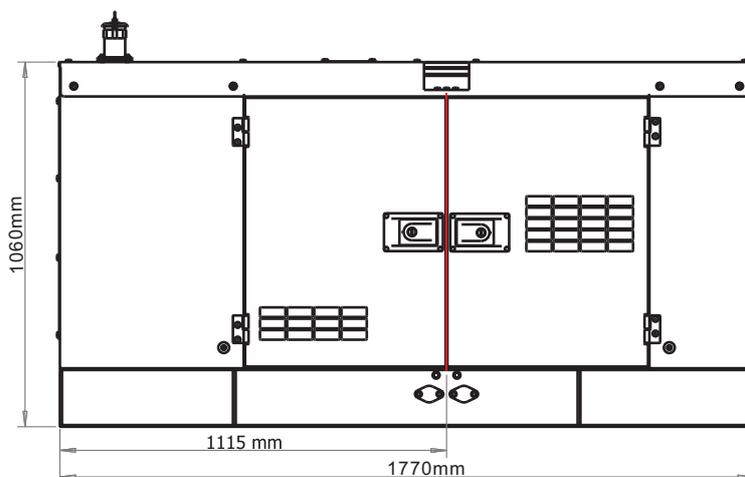
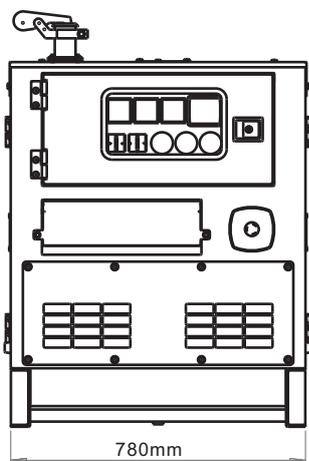
### NOTICE

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.



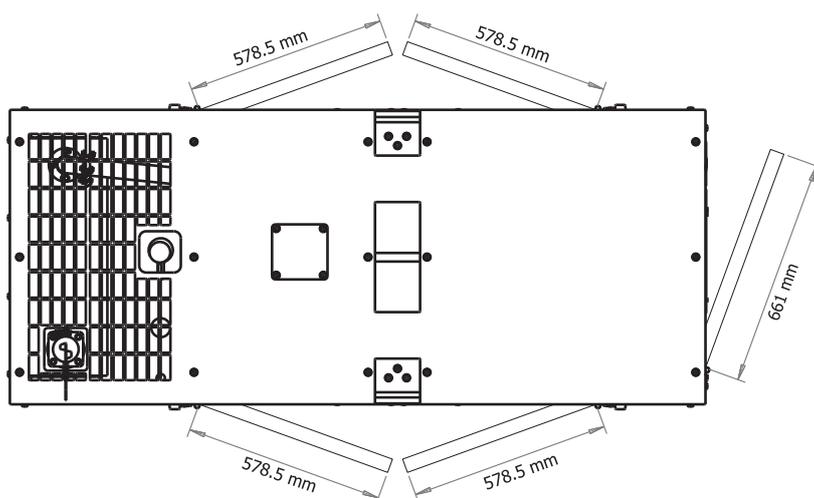
# UGY20FK

## UNIVPOWER SILENT SERIES



### Weight

|                             |          |
|-----------------------------|----------|
| Dry Weight                  | 700 kg   |
| Wet Weight                  | 802 kg   |
| Max. Lifting Point capacity | 1,604 kg |



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