

**Standby Power Rating**  
130 kW, 163 kVA, 50 Hz

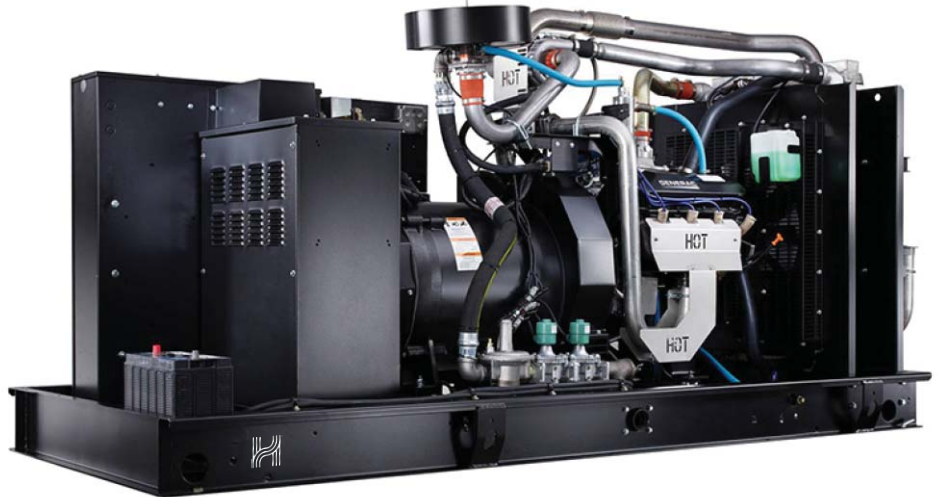


Image used for illustration purposes only



## CODES AND STANDARDS

Not all codes and standards apply to all configurations. Contact factory for details.

-  UL2200, UL508, UL489
-  CSA C22.2, B149
-  BS5514 and DIN 6271
-  SAE J1349
-  NFPA 37, 70, 99, 110
-  NEC 700, 701, 702, 708
-  ISO 3046, 8528, 9001

## FEATURES

Honny ensures superior quality by designing and manufacturing most of its generator components, such as alternators, enclosures, control systems and communications software. Honny also makes its own spark-ignited engines, and you'll find them on every Honny gaseous-fueled generator. We engineer and manufacture them from the block up — all at our facilities throughout China. Applying natural gas and LP-fueled engines to generators requires advanced engineering expertise to ensure reliability, durability and necessary performance. By designing specifically for these dry, hotter-burning fuels, the engines last longer and require less maintenance. Building our own engines also means we control every step of the supply chain and delivery process, so you benefit from single-source responsibility.

Plus, Honny Company Limited's distribution network provides all parts and service so you don't have to deal with third-party suppliers. It all leads to a positive owner experience and higher confidence level. Honny spark-ignited engines give you more options in commercial and industrial generator applications as well as extended run time from utility-supplied natural gas.

## STANDARD FEATURES

### ENGINE SYSTEM

- Oil Drain Extension
- Air Cleaner
- Fan Guard
- Stainless Steel Flexible Exhaust Connection
- Factory Filled Oil and Coolant
- Radiator Duct Adapter (Open Set Only)
- Critical Silencer/Catalyst

### Fuel System

- Fuel Connection on Frame
- Primary and Secondary Fuel Shutoff

### Cooling System

- Closed Coolant Recovery System
- Resistant Hoses
- Factory-Installed Radiator
- 50/50 Ethylene Glycol Antifreeze
- Radiator Drain Extension

### Electrical System

- Battery Charging Alternator
- Battery Cables
- Battery Tray
- Rubber-Booted Engine Electrical Connections
- Solenoid Activated Starter Motor

### ALTERNATOR SYSTEM

- Main Line Circuit Breaker
- Fault Protector
- Class H Insulation Material
- 2/3 Pitch
- Skewed Stator
- Brushless Excitation
- Sealed Bearings
- Amortisseur Winding
- Full Load Capacity Alternator

### GENERATOR SET

- Internal Genset Vibration Isolation
- Separation of Circuits - High/Low Voltage
- Separation of Circuits - Multiple Breakers
- Wrapped Exhaust Piping
- Standard Factory Testing
- 2 Year Limited Warranty (Standby Rated Units)
- Silencer Mounted in the Discharge Hood (Enclosed Units Only)
- Ready to Accept Full Load in <10 Seconds

### ENCLOSURE (If Selected)

- Rust-Proof Fasteners with Nylon Washers to Protect Finish
- High Performance Sound-Absorbing Material (Sound Attenuated Enclosures)
- Gasketed Doors
- Stamped Air-Intake Louvers
- Upward Facing Discharge Hood (Radiator and Exhaust)
- Stainless Steel Lift Off Door Hinges
- Stainless Steel Lockable Handles
- Textured Polyester Powder Coat

### CONTROL SYSTEM



#### Digital Control Panel UK-DSE

#### Program Functions

- Programmable Crank Limiter
- Programmable Exerciser
- Programmable Logic Controller
- RS-232/485 Communications
- All Phase Sensing Digital Voltage Regulator
- 2-Wire Start Capability

- Date/Time Fault History (Event Log)
- Isochronous Governor Control
- Waterproof/Sealed Connectors
- Audible Alarms and Shutdowns
- Not in Auto (Flashing Light)
- Auto/Off/Manual Switch
- E-Stop
- Programmable
- Customizable Alarms, Warnings, and Events
- Modbus® Protocol
- Predictive Maintenance Algorithm
- Sealed Boards
- Password Parameter Adjustment Protection
- Single Point Ground
- 16 Channel Remote Trending
- 0.2 Msec High Speed Remote Trending
- Alarm Information Automatically Annunciated on the Display

#### Full System Status Display

- Power Output (kW)
- Power Factor

- kW Hours, Total, and Last Run
- Real/Reactive/Apparent Power
- All Phase AC Voltage
- All Phase Currents
- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Speed
- Battery Voltage
- Frequency

#### Alarms and Warnings

- Oil Pressure
- Coolant Temperature
- Coolant Level
- Low Fuel Pressure
- Engine Overspeed
- Battery Voltage
- Alarms and Warnings Time and Date Stamped
- Snap Shots of Key Operation Parameters During Alarms and Warnings
- Alarms and Warnings Spelled Out (No Alarm Codes)

### PARALLELING CONTROLS (If Selected)

- Auto-Synchronization Process
- Isochronous Load Sharing
- Reverse Power Protection

- Maximum Power Protection
- Electrically Operated, Mechanically Held Paralleling Switch
- Sync Check System
- Independent On-Board Paralleling

- Optional Programmable Logic Full Auto Back-Up Controls
- Shunt Trip and Auxiliary Contact

## CONFIGURABLE OPTIONS

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### ENGINE SYSTEM

- Engine Block Heater
- Oil Heater
- Air Filter Restriction Indicator
- Radiator Stone Guard (Open Set Only)
- Baseframe Cover/Rodent Guard
- Level 1 Fan and Belt Guards (Enclosed Units Only)
- Shipped Loose Critical Silencer (Open Set Only)

### FUEL SYSTEM

- Flexible Fuel Line

### ELECTRICAL SYSTEM

- Battery Charger
- Battery Wires

### ALTERNATOR SYSTEM

- Alternator Upsizing
- Anti-Condensation Heater
- Tropical Coating

### CIRCUIT BREAKER OPTIONS

- 2nd Main Line Circuit Breaker
- Shunt Trip and Auxiliary Contact
- Electronic Trip Breakers

### GENERATOR SET

- Demand Response Rating
- Extended Factory Testing (3-Phase Only)
- IBC Seismic Certification
- 12 Position Load Center

### WEATHER PROTECTED ENCLOSURE

- Weather Protected Enclosure
- Level 1 Sound Attenuated
- Level 2 Sound Attenuated
- Level 2 Sound Attenuated with Motorized Dampers
- Steel Enclosure
- Aluminum Enclosure
- Up to 200 MPH Wind Load Rating (Contact Factory for Availability)
- AC/DC Enclosure Lighting Kit
- Enclosure Heaters
- Door Open Alarm Switch

### CONTROL SYSTEM

- NFPA 110 Compliant Level 1 21-Light Remote Annunciator
- Remote Relay Assembly (8 or 16)
- Remote E-Stop (Break Glass-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Flush Mount)
- 10A Engine Run Relay
- Ground Fault Annunciator
- 100 dB Alarm Horn
- Damper Alarm Contacts (Motorized Dampers Only)
- 120V GFCI and 240V Outlets
- Auxiliary Circuit Breaker Contacts to Controller

### WARRANTY (Standby Gensets Only)

- 2 Year Extended Limited Warranty
- 5 Year Limited Warranty
- 5 Year Extended Limited Warranty
- 7 Year Extended Limited Warranty
- 10 Year Extended Limited Warranty

## ENGINEERED OPTIONS

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### ENGINE SYSTEM

- Fluid Containment Pans

### CONTROL SYSTEM

- Battery Disconnect Switch

### ALTERNATOR SYSTEM

- 3rd Breaker System

### GENERATOR SET

- Special Testing
- Battery Box

**APPLICATION AND ENGINEERING DATA**

**ENGINE SPECIFICATIONS**

General

Make	Honny	
Cylinder #	8	
Type	V	
Displacement - in <sup>3</sup> (L)	540 (8.9)	
Bore - in (mm)	4.49 (114.23)	
Stroke - in (mm)	4.25 (107.15)	
Compression Ratio	10.5:1 - G18	9.1:1 - G26
Intake Air Method	Turbocharged/Aftercooled	
Number of Main Bearings	5	
Cylinder Head	Forged Steel	
Ignition	High Energy	
Piston Type	Aluminum Alloy	
Crankshaft Type	Forged Steel	
Lifter Type	Hydraulic Roller	
Intake Valve Material	Steel Alloy	
Exhaust Valve Material	Stainless Steel	
Hardened Valve Seats	Yes	

Engine Governing

Governor	Electronic
Frequency Regulation (Steady State)	±0.25%

Lubrication System

Oil Pump Type	Gear
Oil Filter Type	Full-Flow Spin-On Cartridge
Crankcase Capacity with Filters - L (qts)	8.5 (8.0) - G18   9.5 (10.0) - G26

Cooling System

Cooling System Type	Pressurized Closed
Fan Type	Pusher
Fan Speed (rpm)	2,330
Fan Diameter - in (mm)	22 (558)

Fuel System

Fuel Type	Natural Gas
Carburetor	Down Draft
Secondary Fuel Regulator	Standard
Fuel Shut Off Solenoid	Standard
Operating Fuel Pressure NG/LPV- H <sub>2</sub> O (kPa)	7-11 (1.7- 2.7)
Operating Fuel Pressure LPL- psi (kPa)	30 - 312 (206 - 2,151)

Engine Electrical System

System Voltage	12 VDC
Battery Charger Alternator	Standard
Battery Size	See Battery Index 0161970SBY
Battery Voltage	12 VDC
Ground Polarity	Negative

NOTE: G18 is all engines manufactured before August 3rd, 2018 . G26 is all engines manufactured after August 3rd, 2018.

**ALTERNATOR SPECIFICATIONS**

Standard Model	K124YH21
Poles	4
Field Type	Rotating
Insulation Class - Rotor	H
Insulation Class - Stator	H
Total Harmonic Distortion	<5% (3-Phase)
Telephone Interference Factor (TIF)	<50

Standard Excitation	Brushless Excitation
Bearings	Single Sealed
Coupling	Direct via Flexible Disc
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Full Digital
Regulation Accuracy (Steady State)	±0.25%

**OPERATING DATA**

**POWER RATINGS- NATURAL GAS/PROPANE/DUAL FUEL**

	Standby	
Three-Phase 120/208 VAC @0.8pf	130 kW	Amps: 451
Three-Phase 120/240 VAC @0.8pf	130 kW	Amps: 391
Three-Phase 277/480 VAC @0.8pf	130 kW	Amps: 195
Three-Phase 346/600 VAC @0.8pf	130 kW	Amps: 156

**MOTOR STARTING CAPABILITIES (skVA)**

skVA vs. Voltage Dip			
277/480 VAC	30%	208/480 VAC	30%
K1130124Y21	327	K1130124Y21	327
K1150124Y21	326	K1150124Y21	244
K1200124Y21	478	K1200124Y21	361

**FUEL CONSUMPTION RATES**

Natural Gas – cfh (m³/hr)		Propane Vapor - cfh (m³/hr)		Propane Liquid- gal/hr (l/hr)	
Percent Load	Standby	Percent Load	Standby	Percent Load	Standby
25%	635 (18.0)	25%	270 (7.6)	25%	6.5 (24.6)
50%	1,005 (28.4)	50%	390 (11.0)	50%	10.1 (38.2)
75%	1,401 (39.7)	75%	516 (14.6)	75%	14.0 (53.0)
100%	1,797 (50.9)	100%	642 (18.2)	100%	17.7 (67.0)

\* Fuel supply installation must accommodate fuel consumption rates at 100% load.

**COOLING**

	Standby	
Air Flow (Fan Air Flow Across Radiator)	scfm (m³/min)	5,415 (153.3)
Coolant Flow	gpm (Lpm)	27.5 (104)
Coolant System Capacity	gal (L)	6.34 (24.0)
Max. Operating Ambient Temperature	°F (°C)	122 (50)
Maximum Operating Ambient Temperature (Before Derate)	See Bulletin No. 0199270SSD	
Maximum Radiator Backpressure	in H <sub>2</sub> O (kPa)	0.50 (0.12)

**COMBUSTION AIR REQUIREMENTS**

	Standby
Flow at Rated Power scfm (m³/min)	371 (10.5)

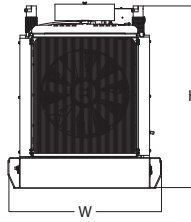
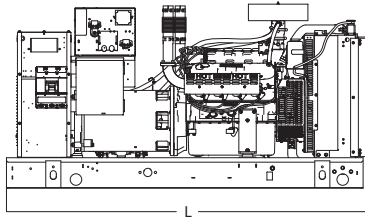
**ENGINE**

	Standby	
Rated Engine Speed	rpm	1,500
Horsepower at Rated kW**	hp	200- G18   205- G26
Piston Speed	ft/min (m/min)	1,275 (389)
BMEP	psi (kPa)	166 (1145)

**EXHAUST**

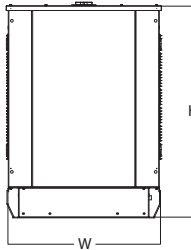
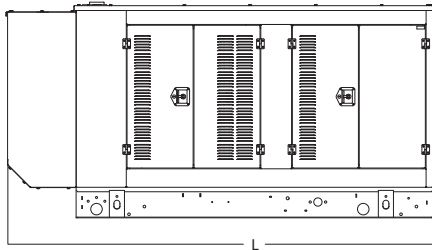
	Standby	
Exhaust Flow (Rated Output)	scfm (m³/min)	1,199 (34)
Max. Backpressure (Post Silencer)	inHg (kPa)	0.75 (2.54)
Exhaust Temp (Rated Output - Post Silencer)	°F (°C)	1,285 (696)

**DIMENSIONS AND WEIGHTS\***



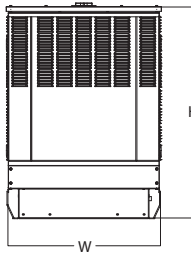
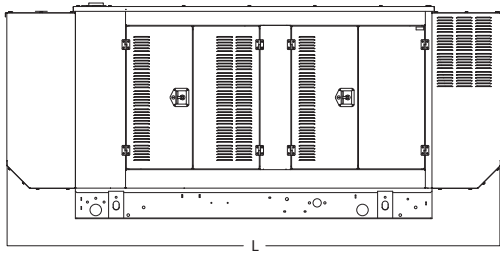
**OPEN SET (Includes Exhaust Flex)**

L x W x H - in (mm)	110.0 (2,795) x 39.9 (1,013) x 54.3 (1,379)
Weight - lbs (kg)	2,674 (1,213)



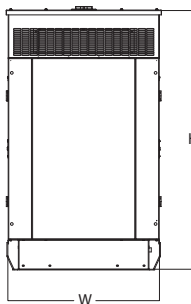
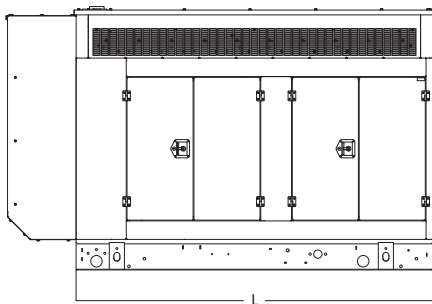
**WEATHER PROTECTED ENCLOSURE**

L x W x H - in (mm)	132.7 (3,371) x 40.5 (1,028) x 63.1 (1,604)
Weight - lbs (kg)	Steel: 3,435 (1,558) Aluminum: 3,056 (1,386)



**LEVEL 1 ACOUSTIC ENCLOSURE**

L x W x H - in (mm)	154.1 (3,915) x 40.5 (1,028) x 63.1 (1,604)
Weight - lbs (kg)	Steel: 3,671 (1,665) Aluminum: 3,157 (1,432)



**LEVEL 2 ACOUSTIC ENCLOSURE**

L x W x H - in (mm)	144.5 (3,670) x 40.5 (1,028) x 80.0 (2,031)
Weight - lbs (kg)	Steel: 3,790 (1,719) Aluminum: 3,208 (1,455)

\* All measurements are approximate and for estimation purposes only.  
† Dimensions based on unit with the Standard Model Alternator