

EPA-Certified for Stationary Emergency Applications

Ratings Range

		60 Hz
Standby:	kW	14.0-17.0
	kVA	14.0-21.3
Prime:	kW	13.0-15.0
	kVA	13.0-18.8

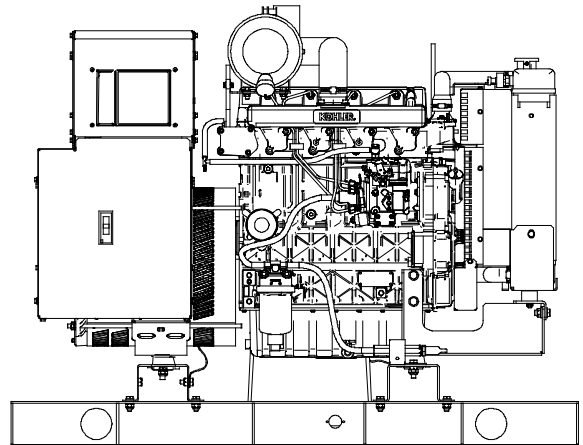


Generator Set Ratings

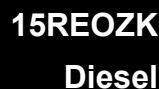
Alternator	Voltage	Ph	Hz	130°C Rise Standby Rating		105°C Rise Prime Rating	
				kW/kVA	Amps	kW/kVA	Amps
4D3.1	120/208	3	60	16.0/20.0	55.5	14.0/17.5	48.6
	127/220	3	60	16.0/20.0	52.5	14.0/17.5	45.9
	120/240	3	60	16.0/20.0	48.1	14.0/17.5	42.1
	120/240	1	60	14.0/14.0	58.3	13.0/13.0	54.2
	139/240	3	60	16.0/20.0	48.2	14.0/17.5	42.1
	220/380	3	60	15.0/18.8	28.5	13.5/16.9	25.6
	277/480	3	60	16.0/20.0	24.1	14.0/17.5	21.0
4D3.8	347/600	3	60	16.0/20.0	19.2	14.0/17.5	16.8
	120/208	3	60	17.0/21.3	59.1	15.0/18.8	52.0
	127/220	3	60	17.0/21.3	55.9	15.0/18.8	49.2
	120/240	3	60	17.0/21.3	51.2	15.0/18.8	45.1
	120/240	1	60	16.0/16.0	66.7	14.0/14.0	58.3
	139/240	3	60	17.0/21.3	51.2	15.0/18.8	45.1
	220/380	3	60	17.0/21.3	32.4	15.0/18.8	28.5
4D5.0	277/480	3	60	17.0/21.3	25.6	15.0/18.8	22.6
	347/600	3	60	16.5/20.6	19.8	14.5/18.1	17.4
	120/208	3	60	17.0/21.3	59.1	15.0/18.8	52.0
	127/220	3	60	17.0/21.3	55.9	15.0/18.8	49.2
	120/240	3	60	17.0/21.3	51.2	15.0/18.8	45.1
	120/240	1	60	16.0/16.0	66.7	14.0/14.0	58.3
	139/240	3	60	17.0/21.3	51.2	15.0/18.8	45.1
4D5.6	220/380	3	60	17.0/21.3	32.4	15.0/18.8	28.5
	277/480	3	60	17.0/21.3	25.6	15.0/18.8	22.6
	347/600	3	60	16.5/20.6	19.8	14.5/18.1	17.4
	120/208	3	60	17.0/21.3	59.1	15.0/18.8	52.0
	127/220	3	60	17.0/21.3	55.9	15.0/18.8	49.2
	120/240	3	60	17.0/21.3	51.2	15.0/18.8	45.1
	120/240	1	60	16.0/16.0	66.7	14.0/14.0	58.3
4E3.1	139/240	3	60	17.0/21.3	51.2	15.0/18.8	45.1
	220/380	3	60	17.0/21.3	32.4	15.0/18.8	28.5
	277/480	3	60	17.0/21.3	25.6	15.0/18.8	22.6
4E3.8	120/240	1	60	16.5/16.5	68.8	15.0/15.0	62.5
4E5.6	120/240	1	60	17.0/17.0	70.8	15.0/15.0	62.5

Standard Features

- Rehiko provides one-source responsibility for the generating system and accessories.
- Approved for use with certified renewable Hydrotreated Vegetable Oil (HVO)/Renewable Diesel (RD) fuels compliant with EN15940/ASTM D975.
- The generator set and its components are prototype-tested, factory-built, and production-tested.
- The 60 Hz generator set offers a UL 2200 listing.
- The generator set accepts rated load in one step.
- The 60 Hz generator set meets NFPA 110, Level 1, when equipped with the necessary accessories and installed per NFPA standards.
- The generator set engine is certified to meet the Environmental Protection Agency (EPA) emergency stationary emissions requirements.
- A one-year limited warranty covers all generator set systems and components. Two- and five-year extended limited warranties are also available.
- Alternator features:
 - Wound field excitation system with its unique PowerBoost design delivers great voltage response and short-circuit capability.
 - The brushless, rotating-field alternator has broadrange reconnectability.
- Other features:
 - Rehiko designed controllers for one-source system integration and remote communication. See Controllers on page 3.
 - The low coolant level shutdown prevents overheating (standard on radiator models only).
 - Integral vibration isolation eliminates the need for under-unit vibration spring isolators.



RATINGS: All three-phase units are rated at 0.8 power factor. All single-phase units are rated at 1.0 power factor. *Standby Ratings:* Standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. *Prime Power Ratings:* At varying load, the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour in twelve. Ratings are in accordance with ISO-8528-1 and ISO-3046-1. For limited running time and continuous ratings, consult the factory. Obtain the technical information bulletin (TIB-101) for ratings guidelines, complete ratings definitions, and site condition derates. The generator set manufacturer reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever.



Application Data

Cooling

Radiator System

Ambient temperature, °C (°F)*	50 (122)
Engine jacket water capacity, L (gal.)	3.5 (0.93)
Radiator system capacity, including engine, L (gal.)	10.5 (2.8)
Engine jacket water flow, Lpm (gpm)	56.8 (15)
Heat rejected to cooling water at rated kW, dry exhaust, kW (Btu/min.)	19.2 (1092)
Water pump type	Centrifugal
Fan diameter, including blades, mm (in.)	406 (16.0)
Fan, kWm (HP)	0.6 (0.8)
Max. restriction of cooling air, intake and discharge side of radiator, kPa (in. H ₂ O)	0.125 (0.5)

* Enclosure reduces ambient temperature capability by 5°C (9°F).

Operation Requirements

Air Requirements

Radiator-cooled cooling air, m ³ /min. (scfm)†	36.8 (1300)
Combustion air, m ³ /min. (cfm)	1.7 (60)
Heat rejected to ambient air:	
Engine, kW (Btu/min.)	16.0 (910)
Alternator, kW (Btu/min.)	4.7 (267)

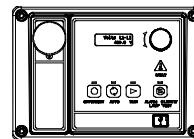
† Air density = 1.20 kg/m³ (0.075 lbm/ft³)

Fuel Consumption**

Diesel, Lph (gph) at % load	Standby Rating
100%	5.8 (1.5)
75%	4.4 (1.2)
50%	3.1 (0.8)
25%	1.9 (0.5)
Diesel, Lph (gph) at % load	Prime Rating
100%	5.2 (1.4)
75%	4.0 (1.1)
50%	2.8 (0.7)
25%	1.7 (0.4)

** Volumetric Fuel consumption is up to 4% higher when using HVO/RD than #2 ULSD.

Controller



APM402 Controller

Provides advanced control, system monitoring, and system diagnostics for optimum performance and compatibility.

- Digital display and menu control provide easy local data access
- Measurements are selectable in metric or English units
- Remote communication thru a PC via network or serial configuration
- Controller supports Modbus® protocol
- Integrated hybrid voltage regulator with ±0.5% regulation
- Built-in alternator thermal overload protection
- NFPA 110 Level 1 capability

Refer to G6-161 for additional controller features and accessories.

Modbus® is a registered trademark of Schneider Electric.

Additional Standard Features

- Air Cleaner, Heavy Duty
- Alternator Protection
- Battery Rack and Cables
- Closed Crankcase Ventilation
- Oil Drain and Coolant Drain with Hose Barb
- Oil Drain Extension (with enclosure models only)
- Operation and Installation Literature
- Stainless Steel Fasteners on Enclosure (with enclosure models only)
- Rodent Guards

Available Options

Approvals and Listings

- ☐ California OSHPD Pre-Approval
- ☐ CSA Certified
- ☐ IBC Seismic Certification
- ☐ UL 2200 Listing

Enclosed Unit

- ☐ Sound Enclosure (with enclosed critical silencer)
- ☐ Stainless Steel Latches and Hinges
- ☐ Weather Enclosure (with enclosed critical silencer)

Open Unit

- ☐ Exhaust Silencer, Critical (kit: PA-352663)
- ☐ Flexible Exhaust Connector, Stainless Steel

Fuel System

- ☐ Flexible Fuel Lines
- ☐ Fuel Pressure Gauge
- ☐ Subbase Fuel Tanks

Controller

- ☐ Manual Speed Adjust (requires Electronic Governor)
- ☐ Remote Annunciator Panel
- ☐ Remote Emergency Stop
- ☐ Run Relay
- ☐ Two Input/Five Output Module

Cooling System

- ☐ Block Heater (600 W, 110-120 V)
Required for ambient temperatures below 20°C (68°F).
- ☐ Radiator Duct Flange

Electrical System

- ☐ Alternator Strip Heater
- ☐ Battery
- ☐ Battery Charger, Equalize/Float Type
- ☐ Battery Heater
- ☐ Electronic Governor
- ☐ Line Circuit Breaker (NEMA type 1 enclosure)
- ☐ Line Circuit Breaker with Shunt Trip (NEMA type 1 enclosure)

Miscellaneous

- ☐ Air Cleaner Restriction Indicator
- ☐ Engine Fluids Added
- ☐ Rated Power Factor Testing

Literature

- ☐ General Maintenance
- ☐ NFPA 110
- ☐ Overhaul
- ☐ Production

Warranty

- ☐ 2-Year Basic Limited Warranty
- ☐ 5-Year Basic Limited Warranty
- ☐ 5-Year Comprehensive Limited Warranty

Other Options

- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

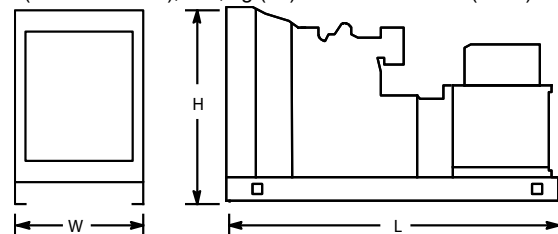
Dimensions and Weights

Overall Size, L x W x H, mm (in.):

Open Unit Skid: 1400 x 810 x 1085.5
(55.1 x 31.9 x 42.7)

Enclosure Skid: 1969 x 882 x 1327
(77.5 x 34.7 x 52.3)

Weight (radiator model), wet, kg (lb.): 455 (1003)



NOTE: This drawing is provided for reference only and should not be used for planning installation. Contact your local distributor for more detailed information.