Liquid Cooled Gas Engine Generator Sets

Standby Power Rating 36 kW 60 Hz



2.4L ENGINE
Turbcharged/Aftercooled
Gaseous Fueled

STANDARD EQUIPMENT

- · All input connections in one single area
- · High coolant temperature shutdown
- · Low oil pressure shutdown
- · Low coolant level automatic shutdown
- · Overspeed automatic shutdown
- · Crank timer
- · Exercise timer
- Oil drain extension
- · Cool flow radiator
- · Closed coolant recovery system
- UV/Ozone resistant hoses

- · Watertight state of the art electrical connectors
- Mainline circuit breaker
- Radiator drain extension
- · Battery charge alternator
- · 2 Amp static battery charger
- · Battery cables
- · Battery rack
- Fan and belt guards
- · Isochronous governor
- Flex fuel line
- Hour meter

FEATURES

- · Innovative design and fully prototype tested
- UL2200 Listed
- Solid state frequency compensated voltage regulator
- Dynamic and static battery charger
- · Sound attenuated acoustically designed enclosure
- Ultra Quiet Mode for low noise level exercise
- Acoustically designed engine cooling system
- High flow low noise factory engineered exhaust system
- State of the art digital control system with R100 digital control panel

- · Watertight electrical connectors
- · Rodent proof construction
- High efficiency, low distortion alternator
- · Vibration isolated from mounting base
- Matching transfer switches engineered and tested to work as a system
- All components easily accessible for maintenance
- · Electrostatically applied powder paint

GENERATOR SPECIFICATIONS

TYPE	Synchronous
ROTOR INSULATION	Class H
STATOR INSULATION	Class H
TOTAL HARMONIC DISTORTION	<5%
TELEPHONE INTERFERENCE FACTOR (TIF)	<50
ALTERNATOR OUTPUT LEADS 3 PHASE	4 wire
BEARINGS	Sealed Ball
COUPLING	Flexible Disc
LOAD CAPACITY (STANDBY RATING)	36 kW
EXCITATION SYSTEM	Direct

NOTE: Generator rating and performance in accordance with ISO8528-5, BS5514, SAE J1349, ISO3046, and DIN6271 standards.

VOLTAGE REGULATOR

TYPE	Electronic
SENSING	Single Phase
REGULATION	± 1%
FEATURES	V/F Adjustable
	Adjustable Voltage and Gain
	LED Indicators

GENERATOR FEATURES

- Revolving field heavy duty generator
- Directly connected to the engine
- ☐ Operating temperature rise 120 °C above a 40 °C ambient
- ☐ Insulation is Class H rated at 150 °C rise
- ☐ All models are fully prototyped tested

CONTROL PANEL FEATURES

Utility sensing

· Delay on utility failure for engine start

Engine warm-up before transferDelay to retransfer to utility

Engine cooldown timer

· Exerciser not set

• Hour meter

☐ SEVEN LED INDICATOR LIGHTS ☐ ADDITIONAL FUNCTIONS

- System ready
- Low fuel pressure
- Low battery
- Low oil pressure
- High coolant temp/low coolant temp
- Overspeed
- Overcrank

■ INTERNAL FUNCTIONS:

- 3 position switch (auto, off and manual)
- 2 wire start for any transfer switch
- Communicates with the KGAT transfer switch
- Built-in 7 day exerciser
- Selectable engine speed at exercise
- · Governor controller is built into the master control board
- Temperature range -40 °C to 70 °C

ENGINE SPECIFICATIONS

MAKE	Generac
MODEL	Inline 4
CYLINDERS	4
DISPLACEMENT	2.4 Liter
BORE (inches)	3.41
STROKE (inches)	
COMPRESSION RATIO	8.5:1
INTAKE AIR SYSTEM	Turbocharged/Aftercooled
VALVE SEATS	Hardened
LIFTER TYPE	Hydraulic

GOVERNOR SPECIFICATIONS

TYPE	Electronic
FREQUENCY REGULATION	Isochronous
STEADY STATE REGULATION	± 0.25
ADJUSTMENTS FOR:	
Speed	Yes
Droop	Yes

ENGINE LUBRICATION SYSTEM

OIL PUMP	Gear
OIL FILTER	Full flow spin-on cartridge
CRANKCASE CAPACITY	4 Quarts

ENGINE COOLING SYSTEM

TYPE	Closed
WATER PUMP	Belt driven
FAN SPEED	1050
FAN DIAMETER	22 inches
FAN MODE	Puller

FUEL SYSTEM

FUEL TYPE	Natural gas, propane vapor
CARBURETOR	Down Draft
SECONDARY FUEL REGULATOR	Standard
FUEL SHUT OFF SOLENOID	Standard
OPERATING FUEL PRESSURE	5" - 14" H ₂ O

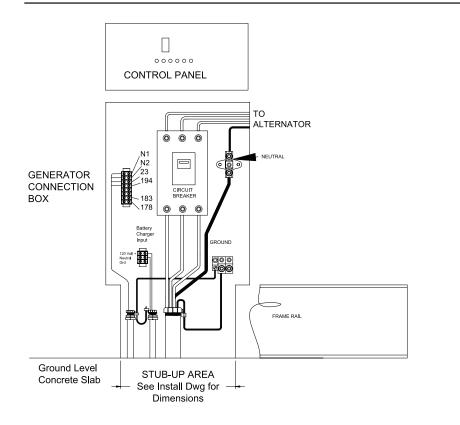
ELECTRICAL SYSTEM

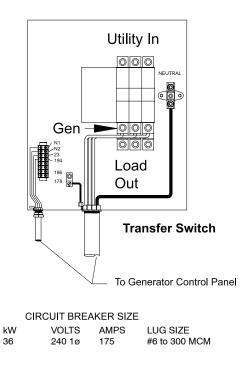
BATTERY CHARGE ALTERNATOR	12V 30 Amp
STATIC BATTERY CHARGER	2 Amp
RECOMMENDED BATTERY	Group 26, 525CCA
SYSTEM VOLTAGE	12 Volts

OPERATING DATA

KW RATING			36/35		
ENGINE SIZE			2.4 Liter		
GENERATOR OUTPUT VOLTAGE/KW - 60Hz 120/240V, 1-phase, 1.0 pf	kW - LP 36	Amps 150	KW - NG 35	Amps 146	CB Size 175
GENERATOR LOCKED ROTOR KVA AVAILABLE @ VOLTAGE DIP OF 35% Single phase			63		
ENGINE FUEL CONSUMPTION (Natural Gas) (Propane) Exercise cycle 25% of rated load 50% of rated load 75% of rated load 100% of rated load	N	atural Gas (ft ³ /hr.) 87 156 282 392 503	(gal/h 0.96 1.67 3.0 4.2 5.4		u ft/hr 35.2 60.8 110 153 196
ENGINE COOLING Air flow (inlet air including alternator and combustion air) ft³/min. System coolant capacity US gal. Heat rejection to coolant BTU/hr. Max. operating air temp. on radiator °C (°F) Max. ambient temperature °C (°F)	2,200 2.5 135,000 60 (150) 50 (140)				
COMBUSTION AIR REQUIREMENTS Flow at rated power 60 Hz cfm	106				
SOUND EMISSIONS IN DBA Exercising at 7 meters Normal operation at 7 meters	58 64				
EXHAUST Exhaust flow at rated output 60 Hz cfm Exhaust temp. at muffler outlet °F	300 1075				
ENGINE PARAMETERS Rated synchronous RPM 60 Hz HP at rated KW 60 Hz	1800 56				
POWER ADJUSTMENT FOR AMBIENT CONDITIONS Temperature Deration 3% for every 10 °C above - °C 1.65% for every 10 °F above - °F Altitude Deration 1% for every 100 m above - m 3% for every 1000 ft. above - ft.	25 77 915 3000				

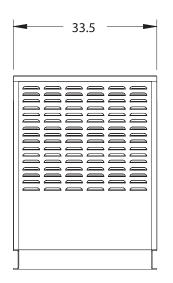
RATING: All three phase units are rated at 0.8 power factor. All single phase units are rated at 1.0 power factor. STANDBY RATING: Standby ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Ratings are in accordance with ISO-3046-1. Design and specifications are subject to change without notice. KW rating is based on LPG Fuel and may derate with natural gas.

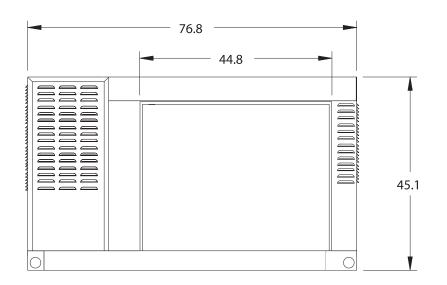




Installation Drawing Ref. No. 0F6286

INSTALLATION LAYOUT





WEIGHT: 1,512 lbs.