# Standby Power Rating

## 45 kW 60 Hz CA

Liquid Cooled Gas Engine Generator Sets

South Coast Air Quality Management District (SCAQMD) Emission Certified For Standby Generator Application



### Whisper-Test™

Low Speed Exercise 58 dB(A) at 23 feet

#### **GENERAC 2.4L ENGINE**

Naturally Aspirated Gaseous Fueled

UL 2200 Listed

Transfer Switch is sold separately

### 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 rack and battery cables
- Fan and belt guards
- Isochronous governor
- Flex fuel line pigtail

### **FEATURES**

- Innovative design and fully prototype tested
- UL 2200 Listed
- Solid state frequency compensated voltage regulator
- Dynamic and static battery charger
- Sound attenuated acoustically designed enclosure
- Whisper-Test<sup>™</sup> for low noise level exercise
- Acoustically designed engine cooling system
- High flow low noise factory engineered exhaust system

- State of the art control system with R-Series digital control panel
- Rodent proof construction
- High efficiency, low distortion Generac designed alternator
- Vibration isolated from mounting base
- Matching Generac transfer switches engineered and tested to work as a system
- All components easily accessible for maintenance
- Electrostatically applied textured 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)	45 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
	± 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

#### ☐ SEVEN LED INDICATOR LIGHTS

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

#### ■ ADDITIONAL FUNCTIONS

- Utility sensing
- · Delay on utility failure for engine start
- Engine warm-up before transfer
- Delay to retransfer to utility
- Engine cooldown timer
- · Exerciser not set

#### ☐ INTERNAL FUNCTIONS:

- 3 position switch (auto, off and manual)
- 2 wire start for any transfer switch
- Communicates with the Generac RTS 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, 146 cu. in.
BORE	
STROKE	3.94
COMPRESSION RATIO	
INTAKE AIR SYSTEM	Naturally Aspirated
VALVE SEATS	Precision ground
LIFTER TYPE	Overhead Valve Push Rod, Hydraulic

### **GOVERNOR SPECIFICATIONS**

TYPE	Electronic
FREQUENCY REGULATION	Isochronous
STEADY STATE REGULATION	± 0.25%

### **ENGINE LUBRICATION SYSTEM**

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

### **ENGINE COOLING SYSTEM**

TYPE	Pressurized Closed
WATER PUMP	
FAN SPEED.	
FAN DIAMETER	
FAN MODE	Pusher

### **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 <sub>2</sub> 0

### **ELECTRICAL SYSTEM**

BATTERY CHARGE ALTERNATOR	12V 30 Amp
STATIC BATTERY CHARGER	2 Amp
RECOMMENDED BATTERY	Group 24F, 525CCA
SYSTEM VOLTAGE	12 Volts

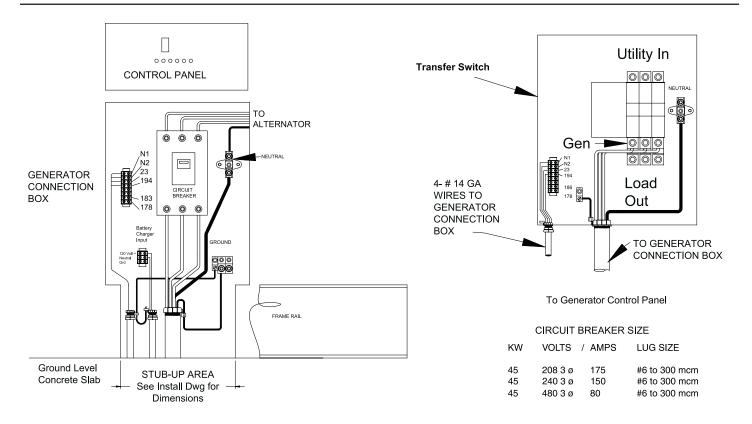


COMMERCIAL 45 kW CA

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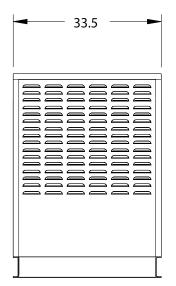
OPERATING DATA		CON	MMERCIAL 45 kW CA	
KW RATING		45		
ENGINE SIZE			2.4 Liter	
GENERATOR OUTPUT VOLTAGE/KW - 60Hz 120/208V, 3-phase, 0.8 pf 120/240V, 3-phase, 0.8 pf 277/480V, 3-phase, 0.8 pf		KW 45 45 45	AMP 156.3 135.4 67.7	CB Size 175 150 80
GENERATOR LOCKED ROTOR KVA AVAILABLE @ VOLTAGE DIP OF 35% 208 3-phase 480V 3-phase		100 110		
ENGINE FUEL CONSUMPTION (Natural Gas) (Preserving Exercise cycle 25% of rated load 50% of rated load 75% of rated load 100% of rated load 100% of rated load	ropane)	Natural Gas (ft³/hr.) 102 194 373 520 720	(gal/hr.) 1.11 2.12 4.07 5.67 7.86	opane cu ft/hr 40.4 77.1 148 206.3 286
ENGINE COOLING  Air flow (inlet air including alternator and com System coolant capacity  Heat rejection to coolant  Max. operating air temp. on radiator  Max. ambient temperature	bustion air) ft³/min. US gal. BTU/hr. °C (°F) °C (°F)	2,725 3.0 173,000 60 (150) 50 (140)		
COMBUSTION AIR REQUIREMENTS Flow at rated power 60 Hz	cfm	144		
SOUND EMISSIONS IN DBA Exercising at 7 meters Full load at 7 meters		58 72		
EXHAUST Exhaust flow at rated output 60 Hz Exhaust temp. at muffler outlet	cfm °F	429 1150		
ENGINE PARAMETERS Rated synchronous RPM HP at rated KW	60 Hz 60 Hz		3600 71	
	FIONS  r every 10 °C above - °C  or every 10 °F above - °F		25 77	
Altitude Deration  1% for every 100 m above - m  3% for every 1000 ft. above - ft.			183 600	

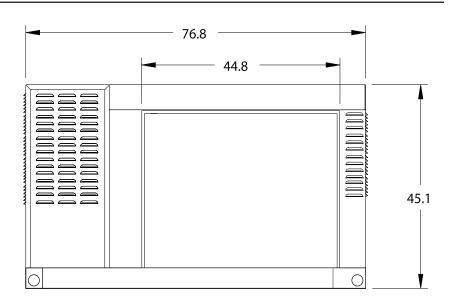
RATING: All single phase units are rated at 1.0 power factor. STANDBY RATING: Standby ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Ratings are in accordance with ISO-3046-1. Design and specifications are subject to change without notice. Maximum wattage and current are subject to and limited by such factors as fuel Btu content, ambient temperature, altitude, engine power and condition, etc.



## INSTALLATION LAYOUT







**UNIT WEIGHT: Steel 1464 lbs.** 

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