

Standby Power Rating

25 kW 60 Hz

**Liquid Cooled
Gas Engine
Generator Sets**

Model Numbers:

05212

05212T



**Ultra Quiet Mode
For Low Noise Exercise
- 58.3 dB(A) at 23 feet**

UL 2200 Listed

Power Matched

GENERAC MMC 2.5FG ENGINE

Naturally Aspirated

2 Year Limited Warranty

**Model 5212T is equipped with a
200 amp NEMA 3R Transfer Switch.
Transfer Switch available for Model 5212**

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

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 R100 digital control system
- Watertight electrical connectors
- 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 powder paint



GENERATOR SPECIFICATIONS

TYPE	Four-pole, revolving field
ROTOR INSULATION	Class H
STATOR INSULATION	Class H
VOLTAGE WAVE FORM DEVIATION	<5%
TOTAL HARMONIC DISTORTION (line to line)	<3.5%
TELEPHONE INTERFERENCE FACTOR (TIF)	<50
ALTERNATOR	Self-ventilated and drip-proof
BEARINGS (PRE-LUBED & SEALED)	1
COUPLING	Direct, Flexible Disc
LOAD CAPACITY (STANDBY)	25 kW

NOTE: Emergency loading in compliance with NFPA 99, NFPA 110, paragraph 5-13.2.6. 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

- | | |
|---|---|
| <ul style="list-style-type: none"> <input type="checkbox"/> SEVEN LED INDICATOR LIGHTS <ul style="list-style-type: none"> • System ready • Low fuel pressure • Low battery voltage • Low oil pressure • High coolant temp/low coolant temp • Overspeed • Overcrank <input type="checkbox"/> INTERNAL FUNCTIONS <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> <input type="checkbox"/> ADDITIONAL FUNCTIONS <ul style="list-style-type: none"> • 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 |
|---|---|

ENGINE SPECIFICATIONS

MAKE	FORD INDUSTRIAL
MODEL	2.5FG
CYLINDERS	4 in-line
DISPLACEMENT	2.5 Liter (153 cu. in.)
BORE	96.01 mm (3.78 in.)
STROKE	86.36 mm (3.4 in.)
COMPRESSION RATIO	9.37:1
INTAKE AIR	Naturally Aspirated
NUMBER OF MAIN BEARINGS	5
CONNECTING RODS	4-Drop forged steel
CYLINDER HEAD	S.O.H.C.
PISTONS	4-Aluminum Alloy
CRANKSHAFT	Drop Forged Steel

VALVE TRAIN

LIFTER TYPE	Overhead Cam Rocker Arm /Hydraulic Lifter
INTAKE VALVE MATERIAL	High Temperature Alloy Forged
EXHAUST VALVE MATERIAL	High Temperature Alloy Forged
VALVE SEATS	Precision ground

ENGINE GOVERNOR

ELECTRONIC.....	Standard
FREQUENCY REGULATION, NO-LOAD TO FULL LOAD	Isochronous
STEADY STATE REGULATION	±0.25%

LUBRICATION SYSTEM

TYPE OF OIL PUMP	Gear
OIL FILTER	Full flow, spin-on cartridge
CRANKCASE CAPACITY	3.8 Liters (4 qts.)

COOLING SYSTEM

TYPE OF SYSTEM	Pressurized, closed recovery
WATER PUMP	Belt driven
TYPE OF FAN	Pusher
NUMBER OF FAN BLADES	6
DIAMETER OF FAN	406 mm (16.0 in.)

FUEL SYSTEM

FUEL	Natural Gas or L.P. Vapor	Standard
CARBURETOR	Down draft	
SECONDARY FUEL REGULATOR - Nat. Gas or L.P. Vapor Systems		
AUTOMATIC FUEL LOCKOFF SOLENOID	Standard	
OPERATING FUEL PRESSURE VAPOR SYSTEMS	Nat. Gas 5" to 14" H ₂ O	
	LP Vapor 5" to 14" H ₂ O	

ELECTRICAL SYSTEM

BATTERY CHARGE ALTERNATOR	15 Amps at 12 V
STARTER MOTOR	12 V
RECOMMENDED BATTERY.....	12 V, 525 CCA @ 0° F/75 A.H., Group 26
GROUND POLARITY	Negative



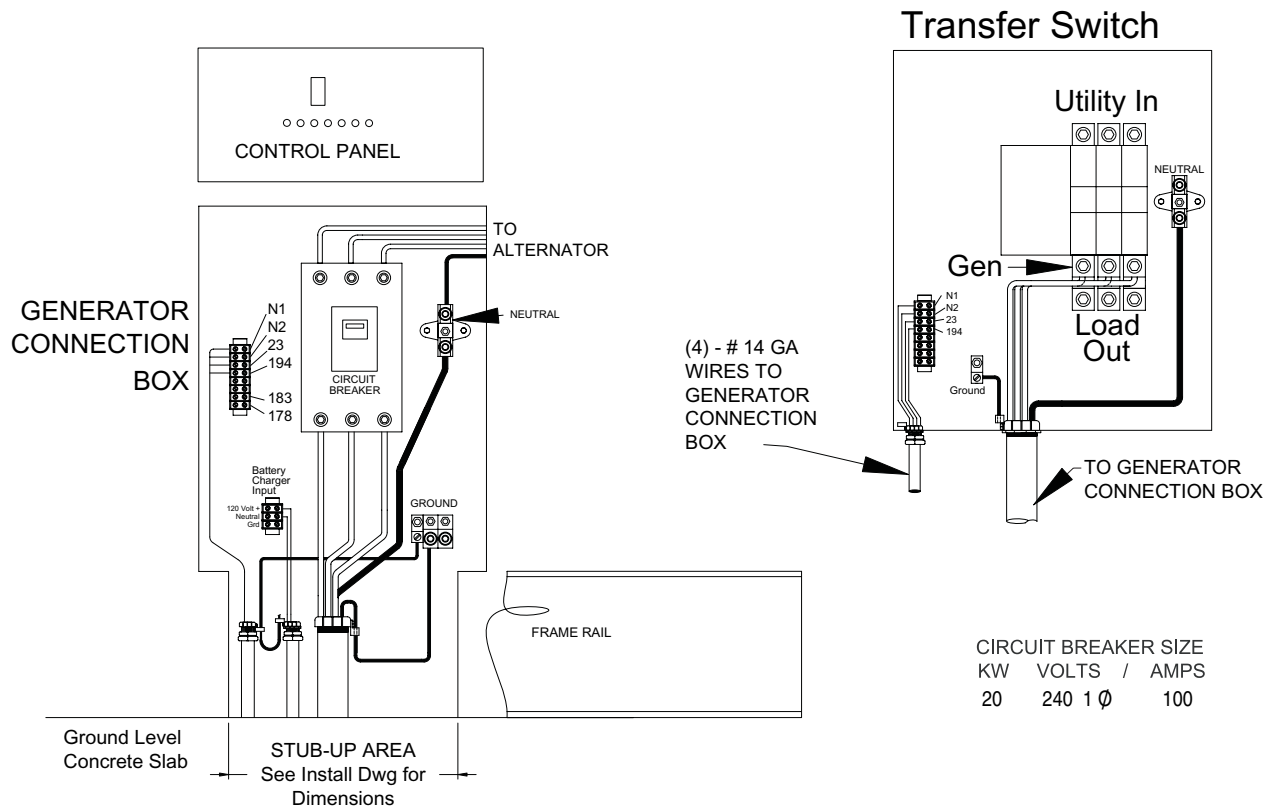
STANDBY 25 kW

OPERATING DATA

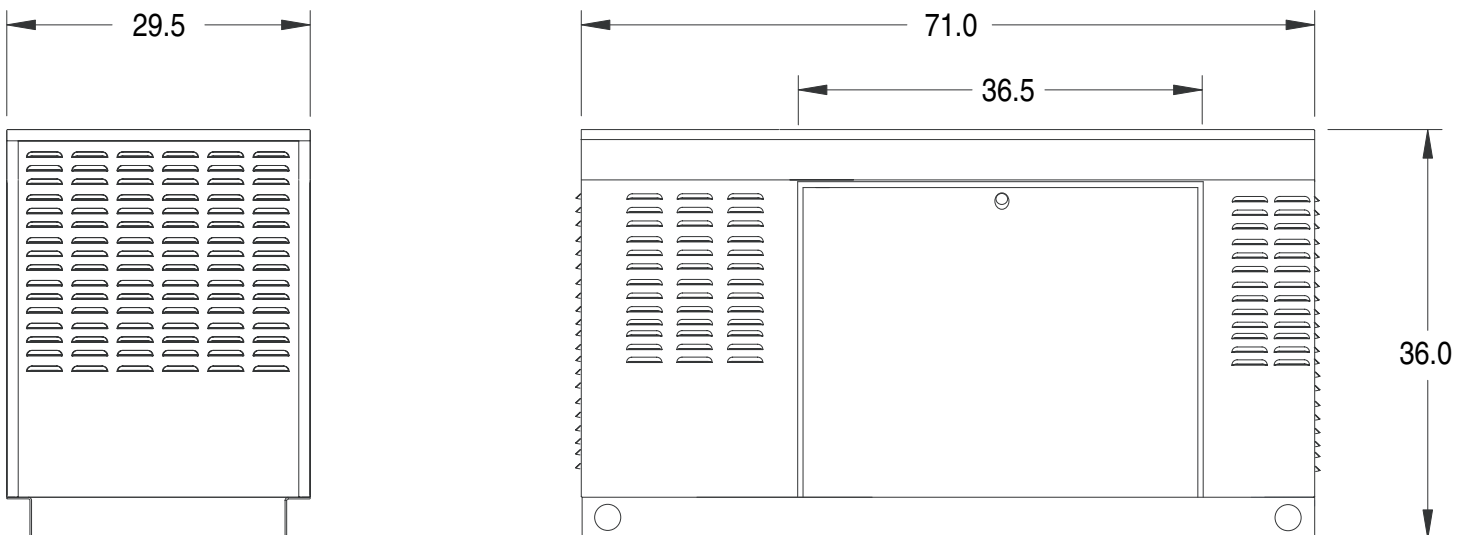
		STANDBY 25 kW				
GENERATOR OUTPUT VOLTAGE/KW - 60Hz 120/240V, 1-phase, 1.0 pf		NG/LP	Rated AMP	CB Size		
		25	104.2	125		
MOTORSTARTING Maximum at 35% instantaneous voltage dip with standard alternator; 60 Hz			40 KVA			
FUEL – Natural Gas and LP Vapor Only Fuel consumption – 60 Hz N.G. ft. ³ /hr. LP ft. ³ /hr.(gal./hr- for reference only)	<u>Exercise Cycle</u>	<u>25% Load</u>	<u>50% Load</u>	<u>75% Load</u>	<u>100% Load</u>	
	60	137	206	275	343	
	24 (.66)	55 (1.54)	82 (2.25)	110 (3.02)	138 (3.76)	
COOLING Coolant capacity System lit.(US gal.) Engine lit.(US gal.) Radiator lit.(US gal.) Coolant flow/min. 60 Hz lit.(US gal.) Heat rejection to coolant 60 Hz BTU/hr. Cooling air flow 60 Hz m ³ /min. (cfm)			11.4 (3.0) 5.3 (1.4) 6.1 (1.6) 67.8 (17.9) 95,000 41 (1438)			
COMBUSTION AIR REQUIREMENTS Flow at rated power 60 Hz m ³ /min. (cfm)			1.9 (67.5)			
EXHAUST Exhaust flow at rated output 60 Hz m ³ /min. (cfm) Max. recommended back pressure Kpa (Hg) Exhaust temp. at rated output °C (°F) Exhaust outlet size N.P.T. (female)			5.2 (183.6) 5.0 (1.5") 538 (1000) 1.5"			
ENGINE Rated at RPM 60 Hz HP at rated KW 60 Hz Piston speed 60 Hz m/min. (ft./min.) BMEP (PSI) 60 Hz			1800 40 310 (1020) 125			
POWER ADJUSTMENT FOR AMBIENT CONDITIONS Temperature -1.65% for every 10°F above - °F Altitude -3% for every 1000 ft. above - ft.			77 600			
SOUND OUTPUT In dB(A) at 23 feet with generator operating at full load In dB(A) at 23 feet with generator operating at exercise			69 58			
TRANSFER SWITCH SPECIFICATIONS <i>If so equipped</i> No. of Poles Current Rating (amps) Voltage Rating (VAC) Utility Voltage Monitor (fixed) <i>Pick-up</i> <i>Dropout</i> Enclosure - NEMA 3R Return to Utility Exerciser 15 minute weekly UL 1008 Listed Dimensions (H" x W" x D") Weight			2 200 250 80% 60% Standard 15 seconds Standard Standard 20 x 15 x 7 35 lbs.			

INTERCONNECTIONS

STANDBY 25 kW



INSTALLATION LAYOUT



UNIT WEIGHT 1045 LBS.