



Township Archives
Township of Brick, NJ
401 Chambers Bridge Rd, Brick, NJ 08723

***This File Contains Personal Identifiable
Information of Private Citizen(s).***

Certain information contained in this file is ***Exempt from Release*** under the Open Public Records Act (OPRA) (Public Law 2001, CHAPTER 404 (N.J.S.A. 47:1A-1 et seq.)) and Executive Orders issued by the Governor of New Jersey. The following information ***MUST*** be redacted prior to release:

- Social Security Numbers
- Drivers' License Numbers
- Unlisted Phone Numbers
- Credit Card Numbers
- Bank Account Numbers and Balances

For further information, consult with the Township Clerk, Township Archivist or Township Attorney prior to release.

A handwritten signature in black ink, appearing to read "Bryan J. Dickerson", is written over a horizontal line.

Bryan J. Dickerson, CA, CMR
Township Archivist

Issued: 8 January 2020



CONSTRUCTION PERMIT APPLICATION

Applicant Completes: Sections I, II, III (optional), IV, VI, and VII

C-21-003946

I. IDENTIFICATION

1. Proposed Work Site at: **1683 Tilford Place Brick, NJ 08724**

2. Name of Owner in Fee: **Mike Abatemarco**

Tel. _____ e-mail _____

Address **1683 Tilford Place** **Brick** **08724**

3. Ownership in Fee: Public _____ Private ☒ Municipality _____ Zip code _____

4. Principal Contractor: **For-Tech Electric** Tel. (**732**) **367-8324**

Address **500 James Street, Unit 11** e-mail **info@ForTechElectric.com**

Lakewood, NJ 08701

License No. OR, if new home, Builder Reg. No. **16624** Exp. Date **3/31/2021**

Home Improvement Contractor Registration No. or Exemption Reason (if applicable): _____

Federal Emp. ID No. **270660150** FAX: (**732**) **367-8322**

5. Architect or Engineer _____ Contact _____

Address _____ e-mail _____

Tel. (_____) _____ FAX: (_____) _____

6. Responsible Person in Charge once Work has Begun **Yaakov Forchheimer**

Tel. (**732**) **367-8324** FAX: (**732**) **367-8322**

V. FEE SUMMARY (for office use only)		Update	Update
1. Building	\$		
2. Electrical	\$		
3. Plumbing	\$		
4. Fire Protection	\$		
5. Elevator Devices <i>Mechanical</i>	\$		
6. Subtotal	\$		
7. Less 20% for State Plan Review	\$		
8. Subtotal	\$		
9. State Permit Surcharge Fee	\$		
10. Subtotal 2	\$		
11. Cert. of Occupancy	\$		
12. Other	\$		
13. TOTAL	\$		

VI. BUILDING/SITE CHARACTERISTICS (office use only)

1. Number of Stories _____

2. Height of Structure _____ ft.

3. Area — Largest Floor _____ sq. ft.

4. New Building Area _____ sq. ft.

5. Volume of New Structure _____ cu. ft.

6. Max. Live Load _____

7. Max. Occupancy Load _____

8. If Industrialized Building: State Approved _____ HUD _____

9. Total Land Area Disturbed _____ sq. ft.

10. Flood Hazard Zone _____

11. Base Flood Elevation _____ ft.

12. Wetlands yes _____ no _____

IIa. PROPOSED WORK

- ☐ Minor Work ☐ New Building ☐ Addition ☐ Demolition
- ☐ Repair ☐ Alteration ☐ Renovation ☐ Reconstruction
- ☐ Asbestos Abat. -Subch. 8 ☐ Lead Hazard Abatement ☐ Radon Remediation ☐ Annual Permit

IIb. SUBCODES

(Check all that apply)

- ☐ Building
- ☐ Electrical
- ☐ Plumbing *MECH*
- ☐ Fire Protection
- ☐ Elevator

OCT 13 2021

TOTAL COST

FOR OFFICE USE ONLY (Optional)

Est. Cost	Plans Rec'd by	Date Rec'd	Rejection Date	Approval Date	Re-viewer	Resubmission Dates Approval	Rejection	Re-viewer
				11/19/21	TC			
				11/10/21	WMM			
				10/29/21	ECC			

VII. DESCRIPTION OF BUILDING USE

A. RESIDENTIAL (primary use)

1. State Specific Use: _____
2. Use Group, Proposed: _____
3. Change in Use Group, Indicate Present: _____
4. No. of dwelling units: **Total Units** *Income-restricted*
- Gained, Sale _____
- Gained, Rental _____
- Lost, Sale _____
- Lost, Rental _____

B. NON-RESIDENTIAL (primary use)

1. State Specific Use: _____
2. Use Group, Proposed: _____
3. Change in Use Group, Indicate Present: _____
- C. MIXED USE -List secondary use(s): _____
- D. Construct. Classification: Present _____ Proposed _____

III. PLAN REVIEW (optional)

DO YOU WANT:

1. ☐ Partial Releases
2. ☐ Prototype Processing

IV. DOES OR WILL YOUR BUILDING CONTAIN ANY OF THE FOLLOWING?

1. ☐ Elevators/Escalators/Lifts/Dumbwaiters/Moving Walks
2. ☐ High Pressure Boilers
3. ☐ Pressure Vessels
4. ☐ Refrigeration Systems
5. ☐ Cross-Connections/Backflow Preventers
6. ☐ Hazardous Uses/Places of Assembly
7. ☐ Sprinklers/Standpipes
8. ☐ Smoke Control Systems in Open Wells
9. ☐ Underground Storage Tanks
10. ☐ Swimming Pools, Spas and Hot Tubs
11. ☐ LPGas Tanks
12. ☐ Fire Alarm



Date Issued	04/07/2022
Control Number	C-21-003946
Permit Number	21-3142
Permit Issue Date	12/02/2021
Certificate Number	21-3142

Construction Code Division
(Certificate of Approval)

Work Site Location: 1683 TILFORD BLVD Brick Township, NJ Block: 688 Lot: 22.02 Qual: _____
Owner in Fee: ABATEMARCO, MICHAEL & PATRICIA
Owner Address: 1683 TILFORD BLVD BRICK NJ 08724
Telephone: [REDACTED]
Contractor FOR-TECH ELECTRIC
Address 500 JAMES St. UNIT 11 LAKEWOOD NJ 08701
Telephone: (732) 367-8324 Fax: (732) 367-8322 Federal Emp. Number: 27-0660-150
License Number or Builders Registration Number: _____

Home Warranty Number: _____ Type of Warranty Plan: ☐ State ☐ Private

Use Group: R-5 Construction Classification: _____

Maximum Live Load: 0 Maximum Occupancy Load: 0

Description of Work/Use: GENERATOR

Certificate Comments:

☐ **Certificate of Occupancy**

This serves notice that said building or structure has been constructed in accordance with the New Jersey Uniform Construction Code and is approved for occupancy.

 Certificate of Approval

This serves notice that the work completed has been constructed or installed in accordance with the New Jersey Uniform Construction Code and is approved. If the permit was issued for minor work, this certificate was based upon what was visible at the time of inspection.

Certificate of Continued Occupancy

This serves notice that based on a general inspection of the visible parts of the building there are no imminent hazards and the building is approved for continued occupancy.

☐ **Temporary Certificate of Compliance**

The following conditions must be met no later than _____ or the owner will be subject to fine or order to vacate:
This certificate has an expiration date of: _____

Conditions to be met:

☐ **Certificate of Clearance - Lead Abatement 5:17**

This serves notice that based on written certification, lead abatement was performed as per NJAC5:17 to the following extent.

- ☐ Total removal of lead-based paint hazards in scope of work
- ☐ Partial or limited time period (years); see file

☐ **Certificate of Clearance - Asbestos Abatement**

This serves notice that based on written certification, asbestos abatement was performed to the following extent.

- ☐ Total removal of asbestos hazards in scope of work
- ☐ Partial or limited time period (years); see file

☐ **Certificate of Compliance**

This serves notice that said potentially hazardous equipment has been installed and/or maintained in accordance with the New Jersey Uniform Construction Code and is approved for use until

☐ **Temporary Certificate of Occupancy**

The following conditions must be met no later than:
or the owner will be subject fine or order to vacate:

This certificate has an expiration date of:

Conditions to be met:

Daniel Newman Jr.

Construction Official

Date Printed: 04/07/2022

U.C.C. F260 (rev. 08/05)

Fee: \$0.00

Check Number: _____

Collected By:



MECHANICAL INSPECTION TECHNICAL SECTION



Date Received
Control #

12/2/21
21-3142

Date Issued
Permit #

A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 838 Lot 22.02 Qualification Code _____
Work Site Location 1683 Tilford Place Brick, NJ 08724

Owner in Fee: Mike Abatemarco
Te [REDACTED] e- [REDACTED]
Address 1683 Tilford Place Brick 08724

Contractor: For-Tech Electric Tel. (732) 367-8324
Address 500 James St Unit 11 e-mail info@fortechelectric.com
Lakewood, NJ 08701

Contractor License No. _____ Exp. Date _____
Home Improvement Contractor Registration No. or Exemption Reason 13VH07592600
Federal Emp. ID No. 270660150 FAX: (732) 367-8322

B. MECHANICAL CHARACTERISTICS

Use Group Present: R-5

Heating System work: [] New OR [] Modification to Existing OR [] Conversion OR [] Replacement

Type: [] Hydronic [] Hot Air

Fuel Type: [] Gas [] Oil [] Electric [] Solar [] Other _____

Estimated Cost of Mechanical Work \$ 1,000

JOB SUMMARY (Office Use Only)

PLAN REVIEW		INSPECTIONS		DATES		
[] No Plans Required		Type:	Failure	Failure	Approval	Initial
[X] Mechanical Plans Approved		Water Heater	_____	_____	_____	_____
Date: <u>11-10-21</u> Approved by: <u>WM</u>		Appliance	_____	_____	_____	_____
Joint Plan Review Required:		Chimney/Vent	_____	_____	_____	_____
[] Bldg. [] Elec. [] Plumb. [] Fire.		Piping	_____	_____	<u>3-22-22</u>	<u>[Signature]</u>
[] Elev.		Tank	_____	_____	_____	_____
SUBCODE APPROVAL for PERMIT		Cooling/AC	_____	_____	_____	_____
Date: <u>11-15-21</u>		Generator	_____	_____	_____	_____
Approved by: <u>[Signature]</u>		Fireplace	_____	_____	_____	_____
SUBCODE APPROVAL for CERTIFICATE		Chimney Cert.	_____	_____	_____	_____
Date: <u>4-4-22</u>		Other _____	_____	_____	_____	_____
Approved by: <u>[Signature]</u>		Other _____	_____	_____	_____	_____
		Final	_____	_____	<u>3-31-22</u>	<u>[Signature]</u>

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application.

Applicant sign/Contractor
sign and seal here:

[Signature]

Print name here: Yaakov Forchheimer

☐ Licensed Contractor

☒ Exempt Applicant

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK

New natural gas generator - 22 kW

NO.	FIXTURE/EQUIPMENT	FEE (Office Use Only)
_____	Water Heater	\$ _____
_____	Fuel Oil Piping Connections	_____
<u>1</u>	Gas Piping Connections	_____
_____	Steam Boiler	_____
_____	Hot Water Boiler	_____
_____	Hot Air Furnace	_____
_____	Oil Tank	_____
_____	LPG Tank	_____
<u>1</u>	Fireplace	_____
_____	Generator	_____
_____	Other	_____

Administrative Surcharge \$ _____
Minimum Fee \$ _____
State Permit Surcharge Fee \$ _____
TOTAL FEE \$ _____



ELECTRICAL SUBCODE TECHNICAL SECTION



A. NOTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 838 Lot 22.02 Qualification Code _____

Work Site Location 1683 Tilford Place Brick, NJ 08738

Owner in Fee: Mike Abatemarco

Tel. _____ e-mail _____

Address 1683 Tilford Place Brick 08724

Contractor: For-Tech Electric Tel. (732) 367-8324

Address 500 James St Unit 11 e-mail info@fortechelectric.com

Lakewood, NJ 08701

Contractor License No. 16624 Exp. Date 03/31/2024

Home Improvement Contractor Registration No. or Exemption Reason _____

Federal Emp. ID No. 270660150 FAX: (732) 367-8322

B. ELECTRICAL CHARACTERISTICS

Use Group Present _____ Proposed _____

[] Pole/Pad # _____ [] Temporary [] Other _____

Building Occupied as _____ Utility Co. _____

Est. Cost of Elec. Work \$ 6,000

JOB SUMMARY (Office Use Only)		INSPECTIONS		Dates (Month/Day)	
PLAN REVIEW		Type:	Failure	Failure	Approval Initial
[] No Plans Required		Rough	_____	_____	_____
[] Partial -Underslab Utilities Approved		Barrier-Free	_____	_____	_____
Date: _____ Approved by: _____		Trench	_____	_____	_____
[x] Electric Plans Approved		Temp. Serv.	_____	_____	_____
Date: <u>11-19-21</u> Approved by: <u>[Signature]</u>		Constr. Serv.	_____	_____	_____
Joint Plan Review Required:		TCO	_____	_____	_____
[] Bldg. [] Plumb. [] Fire. [] Elev.		Other	_____	_____	_____
SUBCODE APPROVAL for PERMIT		Service	_____	_____	_____
Date: <u>11-19-21</u>		Final	_____	_____	_____
Approved by: <u>[Signature]</u>		Barrier-Free	_____	_____	_____
SUBCODE APPROVAL for CERTIFICATE		Temp. Cut-in-Card Date Issued	_____	_____	_____
[] CO [] CCO [x] CA		Final Cut-in-Card Date Issued	_____	_____	_____
Date: <u>1-1-22</u>		Annual Pool Inspection	_____	_____	_____
Approved by: <u>[Signature]</u>		Date of Grounding and Bonding Certification	_____	_____	_____

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of owner) _____ application and perform the work listed on this application. Applicant sign/Contractor sign and seal here:

Print name here: Yaakov Forchheimer

☒ Licensed Electrical Contractor ☐ Exempt Applicant

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK:
New standby Generator - 22 kW

QTY.	SIZE	ITEMS	FEE (Office Use Only)
_____	_____	Lighting Fixtures	_____
_____	_____	Receptacles	_____
_____	_____	Switches	_____
_____	_____	Detectors	_____
_____	_____	Light Poles	_____
_____	_____	Motors—Fract. HP	_____
_____	_____	Emergency & Exit Lights	_____
_____	_____	Communications Points	_____
_____	_____	Alarm Devices/F.A.C. Panel	_____
<u>0</u>	_____	TOTAL NUMBERS	\$ _____
_____	_____	Pool Permit/with UW Lights	_____
_____	_____	Storable Pool/Spa/Hot Tub	_____
_____	_____	KW Elec. Range/Receptacle	_____
_____	_____	KW Oven/Surface Unit	_____
_____	_____	KW Elec. Water Heater	_____
_____	_____	KW Elec. Dryer/Receptacle	_____
_____	_____	KW Dishwasher	_____
_____	_____	HP Garbage Disposal	_____
_____	_____	KW Central A/C Unit	_____
_____	_____	HP/KW Space Heater/Air Handler	_____
_____	_____	KW Baseboard Heat	_____
_____	_____	HP Motors 1/+ HP	_____
<u>1</u>	<u>22</u>	KW Transformer/Generator	_____
_____	_____	AMP Service	_____
_____	_____	AMP Subpanels	_____
_____	_____	AMP Motor Control Center	_____
_____	_____	KW Elec. Sign/Outline Light	_____
<u>1</u>	<u>200</u>	A.T.S.	_____

Administrative Surcharge \$ _____
Minimum Fee \$ _____
State Permit Surcharge Fee \$ _____
TOTAL FEE \$ _____



CONSTRUCTION PERMIT

Date Issued 12/2/01
Control # C-21-003946
Permit # 21-3142

IDENTIFICATION Block: 838 Lot: 22.02 Qualifier _____
Work Site Location: 1683 TILFORD BLVD Brick Township, NJ Contractor FOR-TECH ELECTRIC
Owner in Fee ABATEMARCO, MICHAEL & PATRICIA Address 500 JAMES St. UNIT 11 LAKEWOOD NJ 08701
1683 TILFORD BLVD BRICK NJ 08724 Telephone: (732) 367-8324
Telephone: _____ Lic. No. or Bldrs. Reg. No. 16624
Federal Employee. No. 27-0660-150

Is hereby granted permission to perform the following work:

- ☐ BUILDING ☐ PLUMBING ☐ LEAD HAZARD ABATEMENT
☒ ELECTRICAL ☐ FIRE PROTECTION ☐ DEMOLITION
☐ ELEVATOR DEVICES ☐ ASBESTOS ABATEMENT (Subchapter 8 only) ☒ OTHER

DESCRIPTION OF WORK:

GENERATOR

Note: If construction does not commence within one (1) year of date of issuance, or if construction ceases for a period of six (6) months, this permit is void.

Estimated Cost of Work \$7,000

U.C.C. F170
equiv (rev 1/04)

1 WHITE - INSPECTOR

2 CANARY - OFFICE

3 PINK - TAX ASSESSOR

4 GOLD - APPLICANT

PAYMENTS (Office Use Only)	
Building	\$0
Electrical	\$245
Plumbing	\$0
Fire Protection	\$0
Elevator Devices	\$0
Other	\$125.00
DCA Training Fee	\$13
CO Fee	
Other	\$0
Total	\$383
Check No.	
Cash	\$0
Credit	\$0
Collected By	MARK SERV. 005

REQUIRED INSPECTIONS

Construction work must be inspected in accordance with the State Uniform Construction Code Regulations N.J.A.C. 5:23-2.18. This agency will carry out such periodic inspections during the progress of work as are necessary to insure that the work installed conforms with the requirements of the Uniform Construction Code.

The owner or other responsible person in charge of work must notify this agency when work is ready for any required inspections specified below. Requests for inspections must be made at least 24 hours prior to the time the inspection is desired. Inspections will be performed within three business days of the time for which they are requested. The work must not proceed in a manner which will preclude the inspection until it has been made and approval granted.

- ☒ Required inspections for all subcodes for one- and two-family dwellings are as follows:
- The bottom of footing trenches before placement of footings, except that in cases of pile foundations, inspections shall be made in accordance with the requirements of the building subcode.
 - Foundations and all walls up to grade level prior to back filling.
 - All structural framing, connections, wall and roof sheathing and insulation; electrical rough wiring, panel and service installation; rough plumbing. The framing inspection shall take place after the rough electrical and plumbing inspections and after the installation of the heating, ventilation and/or air conditioning duct system. The insulation inspection shall be performed after all other subcode rough inspections and prior to the installation of any interior finish material.
 - Installation of all finished materials, sealings of exterior joints, plumbing piping, trim and fixtures; electrical wiring, devices and fixtures; mechanical systems equipment.

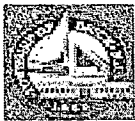
Additional required inspections for all subcodes of construction, for other than one- and two-family dwellings, are fire suppression systems, heat producing devices and Barrier Free subcode accessibility, if applicable.

- ☐ Required special inspections. The applicant by accepting the permit will be deemed to have consented to these requirements:

- ☒ A final inspection is required for each applicable subcode area before a final Certificate of Occupancy or Approval may be issued. The final inspections include the installation of all interior and exterior finish materials, sealing of exterior joints, mechanical system and other required equipment; electrical wiring, devices and fixtures; plumbing pipes, trim and fixtures; tests required by any provision of the adopted subcodes, Barrier Free accessibility, if applicable; and verification of compliance with NJAC 5:23-3.5, "Posting structures".

- ☒ A complete copy of released plans must be kept on the job site.

If you do not understand any of this information, please ask.



Brick Township
401 Chambers Bridge Rd.
Brick, NJ 08723
(732) 262-1041

Date Issued:

Application Number:

Application Date:

Project Number:

Permit Number:

Fee:

12/2/21
ZA-21-01646

10/21/2021

ZP-21-01685

\$75.00

Zoning Permit

Worksite **1683 TILFORD BLVD**
Location: **Brick Township, NJ 08724**

Owner: **ABATEMARCO, MICHAEL & PATRICIA**
Address: **1683 TILFORD BLVD**
BRICK, NJ 08724

Applicant: **FOR-TECH ELECTRIC**

Address: **500 JAMES St.**
UNIT 11
LAKEWOOD, NJ 08701

Block: **838** Lot: **22.02** Qualifier: _____ Zone: **R-7.5**

This Certifies that an application for the issuance of a Zoning Permit has been examined.

Present Use: **Single-Family Residential**

☐ Non Conforming Use

☐ Non Conforming Structure

Proposed Use: **Single-Family Residential**

Work Description:

Generator, Standby - Standby Generator 22kW

The generator must be setback at least 25' from the front property line, 5' from the side and rear property line.

Additional Zoning Permit is required for additional work.

Application Approved Date: **10/25/2021**

Upon review it was determined that the Zoning Permit:

☒ Permitted by Ordinance

☐ Permitted by Variance approved on: _____

☐ Approved with Conditions

☐ Valid Nonconforming Use/Structure is established by

☐ Zoning Board of Adjustment

☐ Zoning Officer

Christopher J. Romario, Zoning Officer

10/25/2021

Date

RECEIVING CLERK _____
DATE REC'D _____

ZONING PERMIT APPLICATION

PERMIT # 20-21-01685
DATE ISSUED 10/2/21

BLOCK: 838 LOT: 22.02 QUALIFIER: _____ SITE ADDRESS: 1683 Tilford Place

IDENTIFICATION:

1. NAME OF OWNER IN FEE: Mike Abatemarco
COMPLETE ADDRESS: 16 Tilford Place Brick, NJ 08724
PHONE # [REDACTED] EMAIL [REDACTED]
2. NAME OF APPLICANT: For-Tech Electric
APPLICANT ADDRESS: 500 James St Unit 11 Lakewood, NJ 08701
PHONE # 732-367-8324 EMAIL: info@fortechelectric.com
3. RESPONSIBLE PERSON FOR WORK: Yaakov Forchheimer
PHONE# 732-367-8324 FAX# 732-367-8322
4. SIGNATURE OF APPLICANT: *Yaakov Forchheimer*

FOR OFFICE USE ONLY

FEE SUMMARY:

APPLICATION FEE: \$ 75
OTHER: \$ _____
TOTAL: \$ 75

REQUIRED BY APPLICANT

RESIDENTIAL: ☒
COMMERCIAL: _____
EXISTING USE: SM
PROPOSED USE: SM

BOARD APPROVAL: _____ PB _____ ZB _____
RESOLUTION#: _____
APPROVAL DATE: _____

PROJECT DESCRIPTION: (PLEASE CHECK APPLICABLE WORK & DESCRIBE)

*NEW BUILDING: _____ *ADDITION _____ *ALTERATION _____ *PORCH _____ *DECK _____

POOL: ABOVE GROUND _____ IN GROUND _____ FENCE: HEIGHT _____ TYPE _____ MATERIAL _____

HEIGHT: _____ (*IF APPLICABLE)

OTHER Standby Generator - 22 kW

DESCRIPTION: New natural gas 22 kW Generac Generator to be installed on a 3" pre-formed concrete GenPad.

ZONING REVIEW:

DATE REVIEWED: 10-25-21 DATE DENIED: _____ DATE APPROVED: 10-25-21 INTLS: CC

(SEE BACK PAGE)



Brick Township
401 Chambers Bridge Rd.
Brick, NJ 08723
(732) 262-1041

Date Issued: _____
Application Number: ZA-21-01646
Application Date: 10/21/2021
Project Number: _____
Permit Number: _____
Fee: \$75.00

Zoning Permit

Worksite **1683 TILFORD BLVD**
Location: **Brick Township, NJ 08724**

Owner: **ABATEMARCO, MICHAEL & PATRICIA**
Address: **1683 TILFORD BLVD**
BRICK, NJ 08724

Applicant: **FOR-TECH ELECTRIC**
Address: **500 JAMES St.**
UNIT 11
LAKEWOOD, NJ 08701

Block: 838 Lot: 22.02 Qualifier: _____ Zone: R-7.5

This Certifies that an application for the issuance of a Zoning Permit has been examined.

Present Use: Single-Family Residential

☐ Non Conforming Use

☐ Non Conforming Structure

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☒ Permitted by Ordinance

☐ Permitted by Variance approved on: _____

☐ Approved with Conditions

☐ Valid Nonconforming Use/Structure is established by

☐ Zoning Board of Adjustment

☐ Zoning Officer

Christopher J. Romano, Zoning Officer

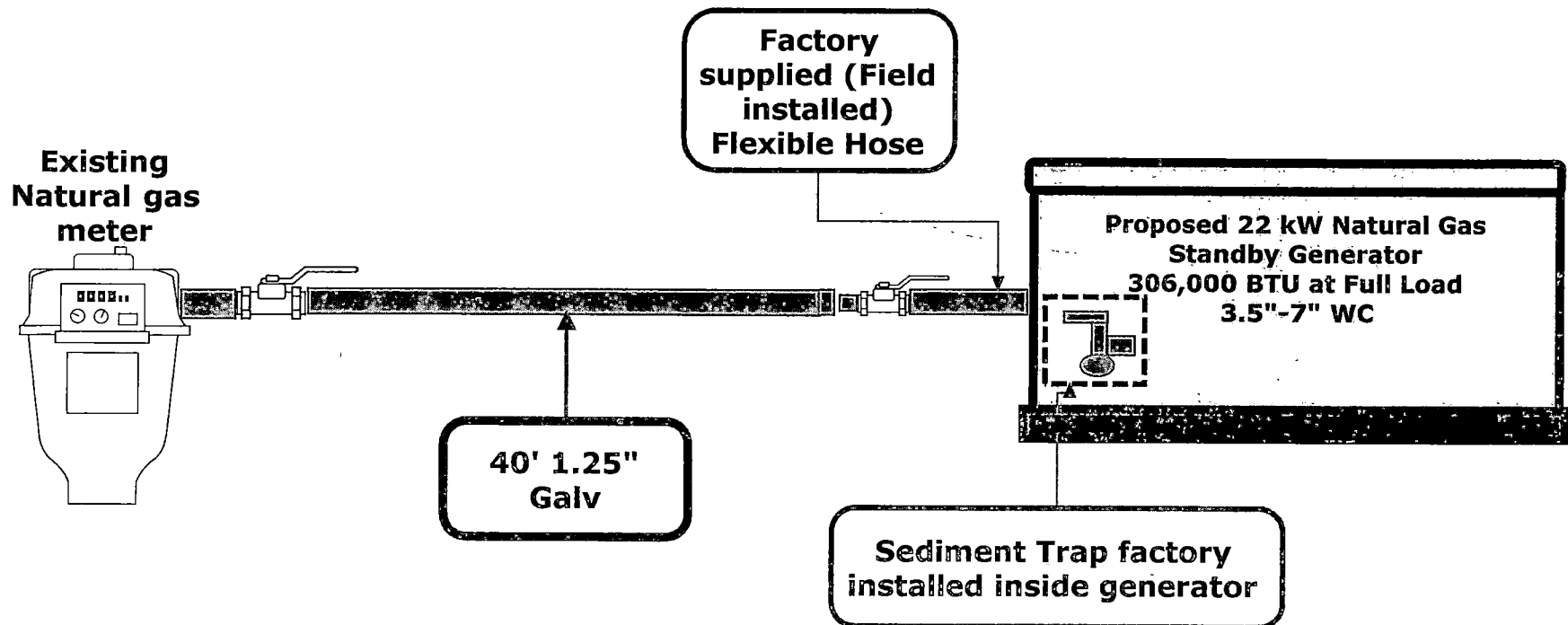
10/25/2021

Date



GAS RISER DIAGRAM

Block: 838 Lot: 22.02
Mike Abatemarco
1683 Tilford Place
Brick, NJ 08724



FOR-TECH ELECTRIC, LLC

500 James St. Unit 11 Lakewood NJ 08701
 P- 732.367.8324 F- 732-367.8322
 info@ForTechElectric.com NJ HIC LIC. #75926

DRAWN BY

Yaakov
Forchheimer

CHECKED

Yaakov Forchheimer

DATE

10/13/2021

SCALE

NA

SHEET NO.



PLUMBING

NOK *[Signature]* 2021

APPROVED

FILE COPY

GAS RISER DIAGRAM

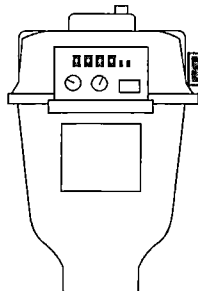
Block: 838 Lot: 22.02

Mike Abatemarco

1683 Tilford Place

Brick, NJ 08724

**Existing
Natural gas
meter**



**Factory
supplied (Field
installed)
Flexible Hose**

**40' 1.25"
Galv**

**Proposed 22 kW Natural Gas
Standby Generator
306,000 BTU at Full Load
3.5"-7" WC**

**Sediment Trap factory
installed inside generator**

FOR-TECH ELECTRIC, LLC

500 James St. Unit 11 Lakewood NJ 08701

P- 732.367.8324 F- 732-367.8322

info@ForTechElectric.com NJ HIC LIC. #75926

DRAWN BY

**Yaakov
Forchheimer**

CHECKED

[Signature]

DATE

10/13/2021

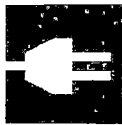
SCALE

NA

SHEET NO.



ELECTRICAL SUBCODE TECHNICAL SECTION



A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 838 Lot 22.02 Qualification Code _____

Work Site Location 1683 Tilford Place Brick, NJ 08738

Owner in Fee: Mike Abatemarco

Te [REDACTED] e-mail [REDACTED]

Address 1683 Tilford Place Brick 08724

Contractor: For-Tech Electric Tel. (732) 367-8324

Address 500 James St Unit 11 e-mail info@fortechelectric.com

Lakewood, NJ 08701

Contractor License No. 16624 Exp. Date 03/31/2024

Home Improvement Contractor Registration No. or Exemption Reason _____

Federal Emp. ID No. 270660150 FAX: (732) 367-8322

B. ELECTRICAL CHARACTERISTICS

Use Group Present _____ Proposed _____

[] Pole/Pad # _____ [] Temporary [] Other _____

Building Occupied as _____ Utility Co. _____

Est. Cost of Elec. Work \$ 6,000

JOB SUMMARY (Office Use Only)	
PLAN REVIEW	INSPECTIONS
	Dates (Month/Day)
[] No Plans Required	Type: Failure Failure Approval Initial
[] Partial -Underslab Utilities Approved	Rough _____
Date: _____ Approved by: _____	Barrier-Free _____
[] Electric Plans Approved	Trench _____
Date: <u>11/19/24</u> Approved by: <u>[Signature]</u>	Temp. Serv. _____
Joint Plan Review Required:	Constr. Serv. _____
[] Bldg. [] Plumb. [] Fire. [] Elev.	TCO _____
SUBCODE APPROVAL for PERMIT	Other _____
Date: _____	Service _____
Approved by: _____	Final _____
	Barrier-Free _____
SUBCODE APPROVAL for CERTIFICATE	Temp. Cut-in-Card Date Issued _____
[] CO [] CCO [] CA	Final Cut-in-Card Date Issued _____
Date: _____	Annual Pool Inspection _____
Approved by: _____	Date of Grounding and Bonding Certification _____

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of the property and intend to make this application and perform the work listed on this application.

Applicant sign/Contractor sign and seal here: _____

Print name here: Yaakov Forshheimer

☒ Licensed Electrical Contractor ☐ Exempt Applicant

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK:
New standby Generator - 22 kW

QTY.	SIZE	ITEMS	Est. (Office Use Only)
_____	_____	Lighting Fixtures	_____
_____	_____	Receptacles	_____
_____	_____	Switches	_____
_____	_____	Detectors	_____
_____	_____	Light Poles	_____
_____	_____	Motors—Fract. HP	_____
_____	_____	Emergency & Exit Lights	_____
_____	_____	Communications Points	_____
_____	_____	Alarm Devices/F.A.C. Panel	_____
_____	_____	TOTAL NUMBERS	\$ _____
_____	_____	Pool Permit/with UW Lights	_____
_____	_____	Storable Pool/Spa/Hot Tub	_____
_____	_____	KW Elec. Range/Receptacle	_____
_____	_____	KW Oven/Surface Unit	_____
_____	_____	KW Elec. Water Heater	_____
_____	_____	KW Elec. Dryer/Receptacle	_____
_____	_____	KW Dishwasher	_____
_____	_____	HP Garbage Disposal	_____
_____	_____	KW Central A/C Unit	_____
_____	_____	HP/KW Space Heater/Air Handler	_____
_____	_____	KW Baseboard Heat	_____
_____	_____	HP Motors 1/+ HP	_____
_____	_____	KW Transformer/Generator	_____
_____	_____	AMP Service	_____
_____	_____	AMP Subpanels	_____
_____	_____	AMP Motor Control Center	_____
_____	_____	KW Elec. Sign/Outline Light	_____
_____	_____	A.T.S.	_____

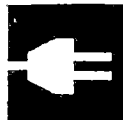
1 22

1 200

Administrative Surcharge \$ _____
Minimum Fee \$ _____
State Permit Surcharge Fee \$ _____
TOTAL FEE \$ _____



ELECTRICAL SUBCODE TECHNICAL SECTION



A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 838 Lot 22.02 Qualification Code _____

Work Site Location 1683 Tilford Place Brick, NJ 08738

Owner in Fee: Mike Abatemarco

Tel. _____ e-mail _____

Address 1683 Tilford Place Brick 08724

Contractor: For-Tech Electric Tel. (732) 367-8324

Address 500 James St Unit 11 e-mail info@fortechelectric.com

Lakewood, NJ 08701

Contractor License No. 16624 Exp. Date 03/31/2024

Home Improvement Contractor Registration No. or Exemption Reason _____

Federal Emp. ID No. 270660150 FAX: (732) 367-8322

B. ELECTRICAL CHARACTERISTICS

Use Group Present _____ Proposed _____

☐ Pole/Pad # _____ ☐ Temporary ☐ Other _____

Building Occupied as _____ Utility Co. _____

Est. Cost of Elec. Work \$ 6,000

JOB SUMMARY (Office Use Only)

PLAN REVIEW		INSPECTIONS		Dates (Month/Day)	
☐ No Plans Required	Type:	Failure	Failure	Approval	Initial
☐ Partial -Underslab Utilities Approved	Rough	_____	_____	_____	_____
Date: _____ Approved by: _____	Barrier-Free	_____	_____	_____	_____
☒ Electric Plans Approved	Trench	_____	_____	_____	_____
Date: <u>1/19/24</u> Approved by: <u>[Signature]</u>	Temp. Serv.	_____	_____	_____	_____
Joint Plan Review Required:	Constr. Serv.	_____	_____	_____	_____
☐ Bldg. ☐ Plumb. ☐ Fire. ☐ Elev.	TCO	_____	_____	_____	_____
SUBCODE APPROVAL for PERMIT	Other	_____	_____	_____	_____
Date: _____	Service	_____	_____	_____	_____
Approved by: _____	Final	_____	_____	_____	_____
SUBCODE APPROVAL for CERTIFICATE	Barrier-Free	_____	_____	_____	_____
☐ CO ☐ CCO ☐ CA	Temp. Cut-in-Card Date Issued	_____	_____	_____	_____
Date: _____	Final Cut-in-Card Date Issued	_____	_____	_____	_____
Approved by: _____	Annual Pool Inspection	_____	_____	_____	_____
	Date of Grounding and Bonding Certification	_____	_____	_____	_____

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and shall make this application and perform the work listed on this application.

Applicant sign/Contractor

sign and seal here: _____

Print name here: Yaakov Forchheimer

☒ Licensed Electrical Contractor ☐ Licensed Applicant

D. TECHNICAL SITE DATA

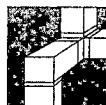
DESCRIPTION OF WORK:
New standby Generator - 22 kW

QTY.	SIZE	ITEMS	FEE (Office Use Only)
_____	_____	Lighting Fixtures	_____
_____	_____	Receptacles	_____
_____	_____	Switches	_____
_____	_____	Detectors	_____
_____	_____	Light Poles	_____
_____	_____	Motors—Fract. HP	_____
_____	_____	Emergency & Exit Lights	_____
_____	_____	Communications Points	_____
_____	_____	Alarm Devices/F.A.C. Panel	_____
<u>0</u>	_____	TOTAL NUMBERS	\$ _____
_____	_____	Pool Permit/with UW Lights	_____
_____	_____	Storable Pool/Spa/Hot Tub	_____
_____	_____	KW Elec. Range/Receptacle	_____
_____	_____	KW Oven/Surface Unit	_____
_____	_____	KW Elec. Water Heater	_____
_____	_____	KW Elec. Dryer/Receptacle	_____
_____	_____	KW Dishwasher	_____
_____	_____	HP Garbage Disposal	_____
_____	_____	KW Central A/C Unit	_____
_____	_____	HP/KW Space Heater/Air Handler	_____
_____	_____	KW Baseboard Heat	_____
_____	_____	HP Motors 1/+ HP	_____
<u>1</u>	<u>22</u>	KW Transformer/Generator	_____
_____	_____	AMP Service	_____
_____	_____	AMP Subpanels	_____
_____	_____	AMP Motor Control Center	_____
_____	_____	KW Elec. Sign/Outline Light	_____
<u>1</u>	<u>200</u>	A.T.S.	_____

Administrative Surcharge \$ _____
Minimum Fee \$ _____
State Permit Surcharge Fee \$ _____
TOTAL FEE \$ _____



MECHANICAL INSPECTION TECHNICAL SECTION



A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 838 Lot 22.02 Qualification Code _____
Work Site Location 1683 Tilford Place Brick, NJ 08724

Owner in Fee: Mike Abatemarco

Tel. [REDACTED] e-mail [REDACTED]

Address 1683 Tilford Place Brick 08724

Contractor: For-Tech Electric Tel. (732) 367-8324

Address 500 James St Unit 11 e-mail info@fortechelectric.com

Lakewood, NJ 08701

Contractor License No. _____ Exp. Date _____

Home Improvement Contractor Registration No. or Exemption Reason 13VH07592600

Federal Emp. ID No. 270660150 FAX: (732) 367-8322

B. MECHANICAL CHARACTERISTICS

Use Group Present: R-5

Heating System work: ☐ New OR ☐ Modification to Existing OR ☐ Conversion OR ☐ Replacement

Type: ☐ Hydronic ☐ Hot Air

Fuel Type: ☐ Gas ☐ Oil ☐ Electric ☐ Solar ☐ Other _____

Estimated Cost of Mechanical Work \$ 1,000

JOB SUMMARY (Office Use Only)

PLAN REVIEW

☐ No Plans Required

☒ Mechanical Plans Approved

Date: 11/10/21 Approved by: W M

Joint Plan Review Required:

☐ Bldg. ☐ Elec. ☐ Plumb. ☐ Fire.

☐ Elev.

SUBCODE APPROVAL for PERMIT

Date: _____

Approved by: _____

SUBCODE APPROVAL for CERTIFICATE

☐ CA ☐ COO

Date: _____

Approved by: _____

INSPECTIONS

Type:

Water Heater

Appliance

Chimney/Vent

Piping

Tank

Cooling/AC

Generator

Fireplace

Chimney Cert.

Other _____

Other _____

Final

DATES

Failure

Failure

Approval

Initial

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application.

Applicant sign/Contractor

sign and seal here:

Print name here: Yaakov Forchheimer

☐ Licensed Contractor

☒ Exempt Applicant

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK

New natural gas generator - 22 kW

NO.

FIXTURE/EQUIPMENT

FEE (Office Use Only)

Water Heater

\$ _____

Fuel Oil Piping Connections

1

Gas Piping Connections

Steam Boiler

Hot Water Boiler

Hot Air Furnace

Oil Tank

LPG Tank

Fireplace

1

Generator

Other

Administrative Surcharge \$ _____

Minimum Fee \$ _____

State Permit Surcharge Fee \$ _____

TOTAL FEE \$ _____



BUILDING SUBCODE TECHNICAL SECTION



Date Received
Control #

Date Issued
Permit #

A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 838 Lot 22.02 Qualification Code _____
Work Site Location 1683 Tilford Place Brick, NJ 08724

Owner in Fee: Mike Abatemarco

T _____ e-mail _____

Address 1683 Tilford Place Brick 08724

Contractor: For-Tech Electric Tel. (732) 367-8324

Address 500 James St Unit 11 e-mail info@fortechelectric.com

Lakewood, NJ 08701

Contractor License No. or Builder Registration No. 16624 Exp. Date 03/31/2024

Home Improvement Contractor Registration No. or Exemption Reason _____

Federal Emp. ID No. 270660150 FAX: (732) 367-8322

JOB SUMMARY (Office Use Only)

PLAN REVIEW	Date	Initial	INSPECTIONS	Dates (Month/Day)			
☐ No Plans Required	_____	_____	Type:	Failure	Failure	Approval	Initial
☐ All	_____	_____	Footings	_____	_____	_____	_____
☐ Footings/Foundations	_____	_____	Footings Bonding	_____	_____	_____	_____
☐ Structural/Framework	_____	_____	Foundation	_____	_____	_____	_____
☐ Exterior	_____	_____	Slab	_____	_____	_____	_____
☐ Interior	_____	_____	Frame	_____	_____	_____	_____
			Truss Sys./Bracing	_____	_____	_____	_____
Joint Plan Review Required:			Barrier-Free	_____	_____	_____	_____
☐ Elec. ☐ Plumb. ☐ Fire ☐ Elevator			Insulation	_____	_____	_____	_____
SUBCODE APPROVAL for PERMIT			Finishes -Base Layer	_____	_____	_____	_____
Date: _____			Finishes -Final	_____	_____	_____	_____
Approved by: _____			Energy	_____	_____	_____	_____
SUBCODE APPROVAL for CERTIFICATE			Mechanical	_____	_____	_____	_____
☐ CO ☐ CCO ☐ CA			TCO	_____	_____	_____	_____
Date: _____			Other	_____	_____	_____	_____
Approved by: _____			Final	_____	_____	_____	_____
			Barrier-Free	_____	_____	_____	_____

B. BUILDING CHARACTERISTICS

Use Group Present _____ Proposed _____ Constr. Class Present _____ Proposed _____

No. of Stories _____ If Industrialized Building: _____

Height of Structure _____ ft. State Approved _____ HUD _____

Area — Largest Floor _____ sq. ft. Est. Cost of Bldg. Work:

New Bldg. Area/All Floors _____ sq. ft. 1. New Bldg. \$ _____ 50

Volume of New Structure _____ cu. ft. 2. Rehabilitation \$ _____ 0

Max. Live Load _____ 3. Total (1+ 2) \$ _____ 50

Max. Occupancy Load _____

U.C.C. F110 (rev. 11/09)
Internet version

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application.

Sign here: _____

Print name here: Yaakov Forchheimer

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK

New natural gas generator - 22 kW
on 3" pre-formed concrete GenPad

TYPE OF WORK:

- ☐ New Building
☐ Addition
☐ Rehabilitation
☐ Roofing
☐ Siding
☐ Fence _____ Height (exceeds 6')
☐ Sign _____ Sq. Ft.
☐ Pool
☐ Retaining Wall _____ Sq. Ft.
☐ Asbestos Abatement Subchapter 8
☐ Lead Haz. Abatement NJAC 5:17
☐ Radon Remediation
☒ Other Generator
☐ Demolition

FEE (Office Use Only)

\$ _____

Administrative Surcharge \$ _____
Minimum Fee \$ _____
State Permit Surcharge Fee \$ _____
TOTAL FEE \$ _____

Applicant: When submitting this form to your Local Construction Code Enforcement Office, please provide one original plus three photocopies.

20/22/24 kW

GENERAC®

GUARDIAN® SERIES
Residential Standby Generators
Air-Cooled Gas Engine

20/22/24 kW

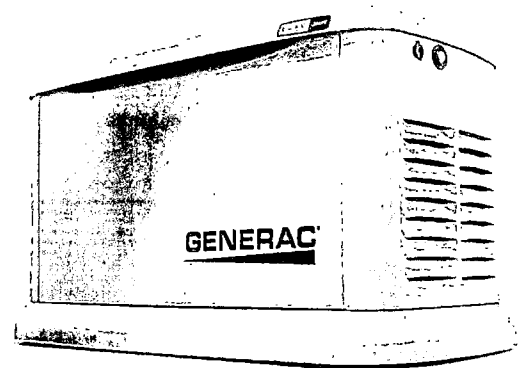
1 of 6

INCLUDES:

- True Power™ Electrical Technology
- Two-line multilingual digital LCD Evolution™ controller (English/Spanish/French/Portuguese)
- 200 amp service rated transfer switch available
- Electronic governor
- Standard Wi-Fi® connectivity
- System status & maintenance interval LED indicators
- Sound attenuated enclosure
- Flexible fuel line connector
- Natural gas or LP gas operation
- 5 Year limited warranty
- Listed and labeled by the Southwest Research Institute allowing installation as close as 18 in (457 mm) to a structure.*
*Must be located away from doors, windows, and fresh air intakes and in accordance with local codes.
https://assets.swri.org/library/DirectoryOfListedProducts/ConstructionIndustry/973_DoC_204_13204-01-01_Rev9.pdf

Standby Power Rating

G007038-1, G007039-1, G007038-3, G007039-3 (Aluminum - Bisque) - 20 kW 60 Hz
G007042-2, G007043-2, G007042-3, G007043-3 (Aluminum - Bisque) - 22 kW 60 Hz
G007209-0, G007210-0 (Aluminum - Bisque) - 24 kW 60 Hz



QUIET TEST™



Note: CETL or CUL certification only applies to unbundled units and units packaged with limited circuit switches. Units packaged with the Smart Switch are ETL or UL certified in the USA only.

FEATURES

- **INNOVATIVE ENGINE DESIGN & RIGOROUS TESTING** are at the heart of Generac's success in providing the most reliable generators possible. Generac's G-Force engine lineup offers added peace of mind and reliability for when it's needed the most. The G-Force series engines are purpose built and designed to handle the rigors of extended run times in high temperatures and extreme operating conditions.
- **TRUE POWER™ ELECTRICAL TECHNOLOGY:** Superior harmonics and sine wave form produce less than 5% Total Harmonic Distortion for utility quality power. This allows confident operation of sensitive electronic equipment and micro-chip based appliances, such as variable speed HVAC systems.
- **TEST CRITERIA:**
 - ✓ **PROTOTYPE TESTED**
 - ✓ **SYSTEM TORSIONAL TESTED**
 - ✓ **NEMA MG1-22 EVALUATION**
 - ✓ **MOTOR STARTING ABILITY**
- **MOBILE LINK® CONNECTIVITY:** FREE with select Guardian Series Home standby generators, Mobile Link Wi-Fi allows users to monitor generator status from anywhere in the world using a smartphone, tablet, or PC. Easily access information such as the current operating status and maintenance alerts. Users can connect an account to an authorized service dealer for fast, friendly, and proactive service. With Mobile Link, users are taken care of before the next power outage.
- **SOLID-STATE, FREQUENCY COMPENSATED VOLTAGE REGULATION:** This state-of-the-art power maximizing regulation system is standard on all Generac models. It provides optimized FAST RESPONSE to changing load conditions and MAXIMUM MOTOR STARTING CAPABILITY by electronically torque-matching the surge loads to the engine. Digital voltage regulation at $\pm 1\%$.
- **SINGLE SOURCE SERVICE RESPONSE** from Generac's extensive dealer network provides parts and service know-how for the entire unit, from the engine to the smallest electronic component.
- **GENERAC TRANSFER SWITCHES:** Long life and reliability are synonymous with GENERAC POWER SYSTEMS. One reason for this confidence is that the GENERAC product line is offered with its own transfer systems and controls for total system compatibility.
- **PWRVIEW™ TRANSFER SWITCH:** The Generac PWRview Automatic Transfer Switch integrates the PWRview energy monitor to provide real-time energy consumption data that can help lower a home's electricity bill. Using a convenient mobile app, homeowners can access energy usage and alert information while under utility power or generator power. The PWRview energy monitor is a simple to use and low cost tool which helps save money over the life of the generator. Included with model G007210-0.

THE GENERAC
PROMISE



GENERAC

PWRVIEW

20/22/24 kW**Features and Benefits****Engine**

- Generac G-Force design
- "Spiny-lok" cast iron cylinder walls
- Electronic ignition/spark advance
- Full pressure lubrication system
- Low oil pressure shutdown system
- High temperature shutdown

Maximizes engine "breathing" for increased fuel efficiency. Plateau honed cylinder walls and plasma moly rings help the engine run cooler, reducing oil consumption and resulting in longer engine life.

Rigid construction and added durability provide long engine life.

These features combine to assure smooth, quick starting every time.

Pressurized lubrication to all vital bearings means better performance, less maintenance, and longer engine life. Now featuring up to a 2 year/200 hour oil change interval.

Shutdown protection prevents catastrophic engine damage due to low oil.

Prevents damage due to overheating.

Generator

- Revolving field
- Skewed stator
- Displaced phase excitation
- Automatic voltage regulation
- UL 2200 listed

Allows for a smaller, light weight unit that operates 25% more efficiently than a revolving armature generator.

Produces a smooth output waveform for compatibility with electronic equipment.

Maximizes motor starting capability.

Regulating output voltage to $\pm 1\%$ prevents damaging voltage spikes.

For your safety.

Transfer Switch (if applicable)

- Fully automatic
- NEMA 3R
- Integrated load management technology
- Remote mounting

Transfers vital electrical loads to the energized source of power.

Can be installed inside or outside for maximum flexibility.

Capability to manage additional loads for efficient power management.

Mounts near an existing distribution panel for simple, low-cost installation.

PWRview Transfer Switch (if applicable)

- PWRview energy monitor
- Ability to view real-time energy consumption data
- PWRview mobile app

Energy usage at-a-glance.

Better understand the home's energy profile.

Access daily energy intelligence and insights.

Evolution™ Controls

- AUTO/MANUAL/OFF illuminated buttons
- Two-line multilingual LCD
- Sealed, raised buttons
- Utility voltage sensing
- Generator voltage sensing
- Utility interrupt delay
- Engine warm-up
- Engine cool-down
- Programmable exercise
- Smart battery charger
- Main line circuit breaker
- Electronic governor

Selects the operating mode and provides easy, at-a-glance status indication in any condition.

Provides homeowners easily visible logs of history, maintenance, and events up to 50 occurrences.

Smooth, weather-resistant user interface for programming and operations.

Constantly monitors utility voltage, setpoints 65% dropout, 80% pick-up, of standard voltage.

Constantly monitors generator voltage to verify the cleanest power delivered to the home.

Prevents nuisance start-ups of the engine, adjustable 2-1500 seconds from the factory default setting of 5 seconds by a qualified dealer.

Verifies engine is ready to assume the load, setpoint approximately 5 seconds.

Allows engine to cool prior to shutdown, setpoint approximately 1 minute.

Operates engine to prevent oil seal drying and damage between power outages by running the generator for 5 minutes every other week. Also offers a selectable setting for weekly or monthly operation providing flexibility and potentially lower fuel costs to the owner.

Delivers charge to the battery only when needed at varying rates depending on outdoor air temperature.

Compatible with lead acid and AGM-style batteries.

Protects generator from overload.

Maintains constant 60 Hz frequency.

20/22/24 kW

Features and Benefits

Unit

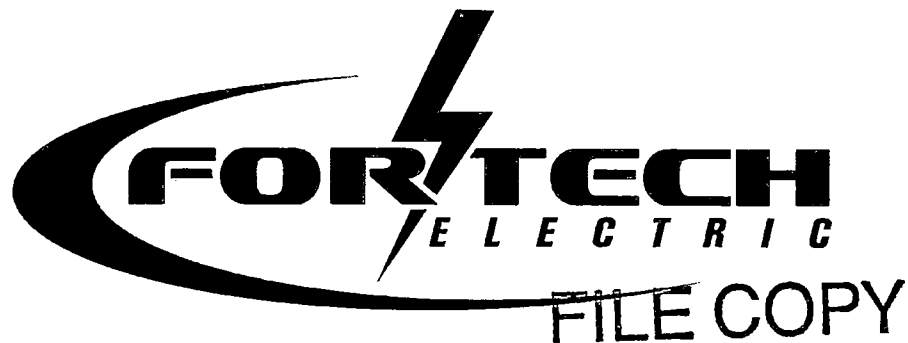
- SAE weather protective enclosure
Sound attenuated enclosures ensure quiet operation and protection against mother nature, withstanding winds up to 150 mph (241 km/h). Hinged key locking roof panel for security. Lift-out front for easy access to all routine maintenance items. Electrostatically applied textured epoxy paint for added durability.
- Enclosed critical grade muffler
Quiet, critical grade muffler is mounted inside the unit to prevent injuries.
- Small, compact, attractive
Makes for an easy, eye appealing installation, as close as 18 in (457 mm) away from a structure.

Installation System

- 14 in (35.6 cm) flexible fuel line connector
Listed ANSI Z21.75/CSA 6.27 outdoor appliance connector for the required connection to the gas supply piping.
- Integral sediment trap
Meets IFGC and NFPA 54 installation requirements.

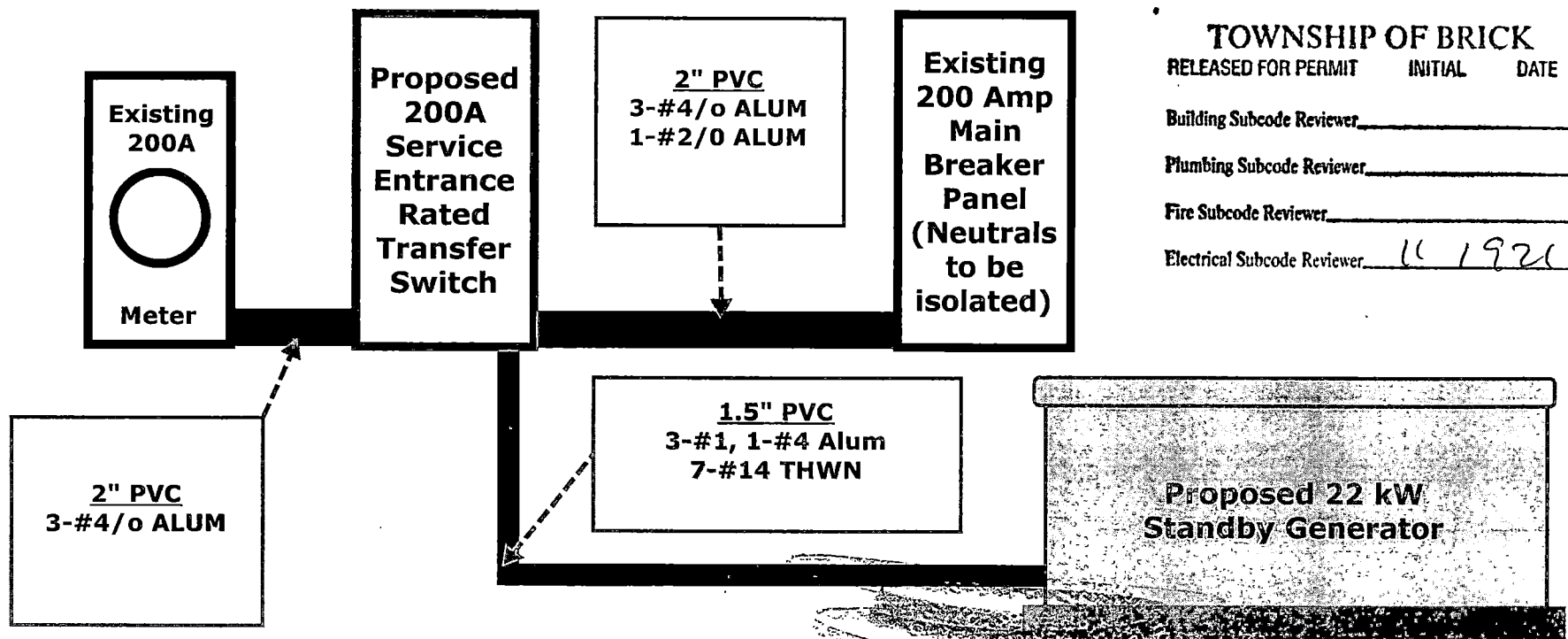
Connectivity (Wi-Fi equipped models only)

- Ability to view generator status
Monitor generator with a smartphone, tablet, or computer at any time via the Mobile Link application for complete peace of mind.
- Ability to view generator Exercise/Run and Total Hours
Review the generator's complete protection profile for exercise hours and total hours.
- Ability to view generator maintenance information
Provides maintenance information for the specific model generator when scheduled maintenance is due.
- Monthly report with previous month's activity
Detailed monthly reports provide historical generator information.
- Ability to view generator battery information
Built in battery diagnostics displaying current state of the battery.
- Weather information
Provides detailed local ambient weather conditions for generator location.



Electrical Diagram

Block: 838 Lot: 22.02
Mike Abatemarco
1683 Tilford Place
Brick, NJ 08724



FOR-TECH ELECTRIC, LLC

500 James St. Unit 11 Lakewood NJ 08701
P- 732.367.8324 F- 732-367.8322
info@ForTechElectric.com NJ ELEC. LIC. #16624

DRAWN BY

Yaakov
Forchheim

CHECKED

DATE

10/13/2021

SCALE

NA

SHEET NO.



For-Tech Electric, LLC.
500 James Street
Unit 12
Lakewood, NJ 08701
(732) 367-8324
www.fortechelectric.com

Sizing Report

Sizing Information for:
Mike Abatemarco
1683 Tilford Blvd
Brick, NJ 08724

Rated Nominal Voltage	240
Generator Fuel Choice	Natural Gas
Sizing Method (NEC 220)	Part IV
(Part III required for selected circuit implementation, Both valid for whole house)	

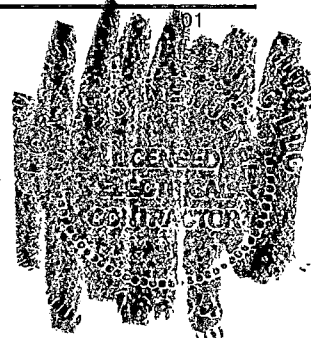
General Lighting & Receptacles		Load (kW)
Square Footage Being Covered (ft^2)	2800	8.4
Small Appliance Circuits (20 amps)		
Kitchen Circuits	2	3
Laundry Circuits	1	1.5

Fixed-In-Place Appliances & Motors	Managed Loads	Estimated (kW)	Nameplate (amps)	240 V	Load (kW)
Furnace (Forced Air)		0.7			0.7
Refrigerator		0.8			0.8
Refrigerator		0.8			0.8
Freezer		0.8			0.8
Dishwasher		1.5			1.5
Freezer		0.8			0.8
Sump Pump		0.5			0.5
Oven		5.0		X	5.0
Sump Pump		0.5			0.5
Cook Top		3.0		X	3.0

Air Conditioning & Cooling	Managed Loads	Estimated (kW)	Nameplate (amps)	240 V	Load (kW)
2.0 Ton Unit	X	2.0		X	0.0
3.5 Ton Unit		3.5		X	3.5

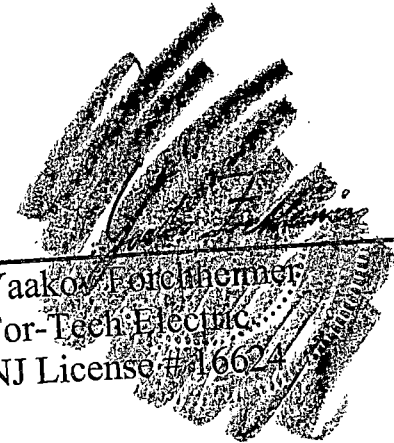
Heating & Heat Pumps	Managed Loads	Estimated (kW)	Nameplate (amps)	240 V	Load (kW)
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Transient Requirement	Estimated (LRA)	Actual (LRA)	Utilized (LRA)
Largest Motor's Starting Amps (LRA)	101	0	101



	Load (kW)	NEC Required
Summary NEC Load		
General Lighting & Receptacles	12.9	
Fixed-in-Place Appliances & Motors	14.4	
Sum of all General Loads	27.3	16.9
Cooling	3.5	3.5
Heating (w/demand factors)	0	0
Larger of Heating & Cooling	3.5	3.5
Sizing based on requirements of NEC Article 220, Part IV		20.4
Elevation		0 ft
Minimum size generator for motor starting requirements		14
BTU load required		306000

24 kW Generac Model Generator Recommended



Yaakov Forchheimer
For-Tech Electric
NJ License #16624



For-Tech Electric, LLC.
 500 James Street
 Unit 12
 Lakewood, NJ 08701
 (732) 367-8324
 www.fortechelectric.com

Sizing Report

Sizing Information for:
 Mike Abatamarco
 1683 Tilford Blvd
 Brick, NJ 08724

Rated Nominal Voltage 240
 Generator Fuel Choice Natural Gas
 Sizing Method (NEC 220) Part IV
 (Part III required for selected circuit implementation, Both valid for whole house)

General Lighting & Receptacles		Load (kW)
Square Footage Being Covered (ft ²)	2800	8.4
Small Appliance Circuits (20 amps)		
Kitchen Circuits	2	3
Laundry Circuits	1	1.5

Fixed-In-Place Appliances & Motors	Managed Loads	Estimated (kW)	Nameplate (amps)	240 V	Load (kW)
Furnace (Forced Air)		0.7			0.7
Refrigerator		0.8			0.8
Refrigerator		0.8			0.8
Freezer		0.8			0.8
Dishwasher		1.5			1.5
Freezer		0.8			0.8
Sump Pump		0.5			0.5
Oven		5.0		X	5.0
Sump Pump		0.5			0.5
Cook Top		3.0		X	3.0

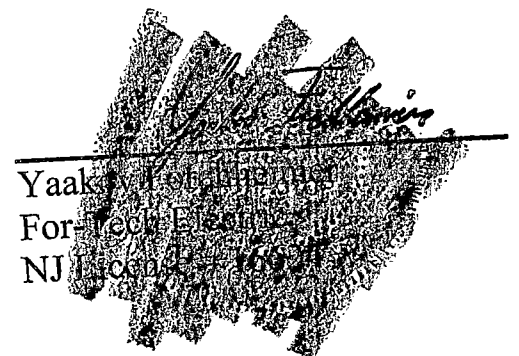
Air Conditioning & Cooling	Managed Loads	Estimated (kW)	Nameplate (amps)	240 V	Load (kW)
2.0 Ton Unit	X	2.0		X	0.0
3.5 Ton Unit		3.5		X	3.5

Heating & Heat Pumps	Managed Loads	Estimated (kW)	Nameplate (amps)	240 V	Load (kW)
----------------------	---------------	----------------	------------------	-------	-----------

Transient Requirement	Estimated (LRA)	Actual (LRA)	Utilized (LRA)
Largest Motor's Starting Amps (LRA)	101	0	101

	Load (kW)	NEC Required
Summary NEC Load		
General Lighting & Receptacles	12.9	
Fixed-in-Place Appliances & Motors	14.4	
Sum of all General Loads	27.3	16.9
Cooling	3.5	3.5
Heating (w/demand factors)	0	0
Larger of Heating & Cooling	3.5	3.5
Sizing based on requirements of NEC Article 220, Part IV		20.4
Elevation		0 ft
Minimum size generator for motor starting requirements		14
BTU load required		306000

24 kW Generac Model Generator Recommended


 Yaakov Forshman
 For Tech Electric Inc.
 NJ License # 100011

20/22/24 kW

Specifications

Generator

Model	G007038-1 G007039-1 (20 kW)	G007042-2 G007043-2 (22 kW)	G007038-3 G007039-3 (20 kW)	G007042-3 G007043-3 (22 kW)	G007209-0 G007210-0 (24 kW)
Rated maximum continuous power capacity (LP)	20,000 Watts*	22,000 Watts*	20,000 Watts*	22,000 Watts*	24,000 Watts*
Rated maximum continuous power capacity (NG)	18,000 Watts*	19,500 Watts*	18,000 Watts*	19,500 Watts*	21,000 Watts*
Rated voltage	240				
Rated maximum continuous load current – 240 volts (LP/NG)	83.3 / 75.0	91.7 / 81.3	83.3 / 75.0	91.7 / 81.3	100 / 87.5
Total Harmonic Distortion	Less than 5%				
Main line circuit breaker	90 amp	100 amp	90 amp	100 amp	100 amp
Phase	1				
Number of rotor poles	2				
Rated AC frequency	60 Hz				
Power factor	1.0				
Battery requirement (not included)	12 Volts, Group 26R 540 CCA minimum or Group 35AGM 650 CCA minimum				
Unit weight (lb / kg)	448 / 203	466 / 211	436 / 198	445 / 202	455 / 206
Dimensions (L x W x H) in / cm	48 x 25 x 29 / 121.9 x 63.5 x 73.7				
Sound output in dB(A) at 23 ft (7 m) with generator operating at normal load**	67	67	67	67	67
Sound output in dB(A) at 23 ft (7 m) with generator in Quiet-Test™ low-speed exercise mode**	55	57	55	57	57
Exercise duration	5 min				

Engine

Engine type	GENERAC G-Force 1000 Series				
Number of cylinders	2				
Displacement	999 cc				
Cylinder block	Aluminum w/ cast iron sleeve				
Valve arrangement	Overhead valve				
Ignition system	Solid-state w/ magneto				
Governor system	Electronic				
Compression ratio	9.5:1				
Starter	12 VDC				
Oil capacity including filter	Approx. 1.9 qt / 1.8 L				
Operating rpm	3,600				
Fuel consumption					
Natural gas	ft ³ /hr (m ³ /hr)				
1/2 Load	204 (5.78)	228 (6.46)	164 (4.64)	203 (5.75)	
Full Load	301 (8.52)	327 (9.26)	287 (8.13)	306 (8.66)	
Liquid propane	ft ³ /hr (gal/hr) [L/hr]				
1/2 Load	87 (2.37) [8.99]	92 (2.53) [9.57]	86 (2.36) [8.95]	92 (2.53) [9.57]	
Full Load	130 (3.56) [13.48]	142 (3.90) [14.77]	136 (3.74) [14.15]	142 (3.90) [14.77]	

Note: Fuel pipe must be sized for full load. Required fuel pressure to generator fuel inlet at all load ranges – 3.5–7 in water column (0.87–1.74 kPa) for NG, 10–12 in water column (2.49–2.99 kPa) for LP gas. For BTU content, multiply ft³/hr x 2500 (LP) or ft³/hr x 1000 (NG). For Megajoule content, multiply m³/hr x 93.15 (LP) or m³/hr x 37.26 (NG).

Controls

Two-line plain text multilingual LCD	Simple user interface for ease of operation.
Mode buttons: AUTO	Automatic start on utility failure. Weekly, Bi-weekly, or Monthly selectable exerciser.
MANUAL	Start with starter control, unit stays on. If utility fails, transfer to load takes place.
OFF	Stops unit. Power is removed. Control and charger still operate.
Ready to Run/Maintenance messages	Standard
Engine run hours indication	Standard
Programmable start delay between 2–1500 seconds	Standard (programmable by dealer only)
Utility Voltage Loss/Return to Utility adjustable (brownout setting)	From 140–171 V / 190–216 V
Future Set Capable Exerciser/Exercise Set Error warning	Standard
Run/Alarm/Maintenance logs	60 events each
Engine start sequence	Cyclic cranking: 16 sec on, 7 rest (90 sec maximum duration).
Starter lock-out	Starter cannot re-engage until 5 sec after engine has stopped.
Smart Battery Charger	Standard
Charger Fault/Missing AC warning	Standard
Low Battery/Battery Problem Protection and Battery Condition indication	Standard
Automatic Voltage Regulation with Over and Under Voltage Protection	Standard
Under-Frequency/Overload/Stepper Overcurrent Protection	Standard
Safety Fused/Fuse Problem Protection	Standard
Automatic Low Oil Pressure/High Oil Temperature Shutdown	Standard
Overcrank/Overspeed (@ 72 Hz)/rpm Sense Loss Shutdown	Standard
High Engine Temperature Shutdown	Standard
Internal Fault/Incorrect Wiring protection	Standard
Common external fault capability	Standard
Field upgradable firmware	Standard

** Sound levels are taken from the front of the generator. Sound levels taken from other sides of the generator may be higher depending on installation parameters. Rating definitions – Standby: Applicable for supplying emergency power for the duration of the utility power outage. No overload capability is available for this rating. (All ratings in accordance with BS5514, ISO3046 and DIN6271). * Maximum kilovolt amps and current are subject to and limited by such factors as fuel BTU/megajoule content, ambient temperature, altitude, engine power and condition, etc. Maximum power decreases approximately 3.5% for each 1,000 ft (304.8 m) above sea level; and also will decrease approximately 1% for each 10 °F (6 °C) above 60 °F (16 °C).

20/22/24 kW

Service Rated Automatic Transfer Switch Features

- Intelligently manages up to four air conditioner loads with no additional hardware.
- Up to eight additional large (240 VAC) loads can be managed when used in conjunction with Smart Management Modules (SMMs).
- Electrically operated, mechanically-held contacts for fast, clean connections.
- Rated for all classes of load, 100% equipment rated, both inductive and resistive.
- 2-pole, 250 VAC contactors.
- Service equipment rated, dual coil design.
- Rated for both aluminum and copper conductors.
- Main contacts are silver plated or silver alloy to resist welding and sticking.
- NEMA/UL 3R aluminum outdoor enclosure allows for indoor or outdoor mounting flexibility.

Dimensions

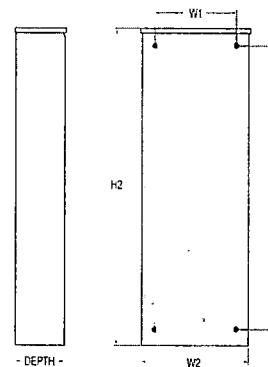
200 Amps 120/240, 1Ø Open Transition Service Rated					
	Height		Width		Depth
	H1	H2	W1	W2	
in	26.8	30.1	10.5	13.5	6.9
cm	67.95	76.43	26.67	34.18	17.5

Wire Ranges		
Conductor Lug	Neutral Lug	Ground Lug
250 MCM - #6	350 MCM - #6	2/0 - #14

Model G007039-1, G007039-3 (20 kW)
G007043-2, G007043-3 (22 kW)

No. of poles	2
Current rating (amps)	200
Voltage rating (VAC)	120/240-1Ø
Utility voltage monitor (fixed)*	
-Pick-up	80%
-Dropout	65%
Return to Utility*	Approx. 13 sec
Exercises bi-weekly for 5 minutes*	Standard
ETL or UL listed	Standard
Enclosure type	NEMA/UL 3R
Circuit breaker protected	22,000
Lug range	250 MCM - #6

*Function of Evolution controller
Exercise can be set to weekly, bi-weekly, or monthly



PWRview Automatic Transfer Switch Features

- Integrated PWRview monitor provides real-time energy usage data through PWRview app.
- Intelligently manages up to four air conditioner loads with no additional hardware.
- Up to eight additional large (240 VAC) loads can be managed when used in conjunction with Smart Management Modules (SMMs).
- Electrically operated, mechanically-held contacts for fast, clean connections.
- Rated for all classes of load, 100% equipment rated, both inductive and resistive.
- 2-pole, 250 VAC contactors.
- Service equipment rated, dual coil design.
- Rated for both aluminum and copper conductors.
- Main contacts are silver plated or silver alloy to resist welding and sticking.
- NEMA 3R aluminum outdoor enclosure allows for indoor or outdoor mounting flexibility.
- Heavy duty Generac Contactor is an ETL recognized device.

Dimensions

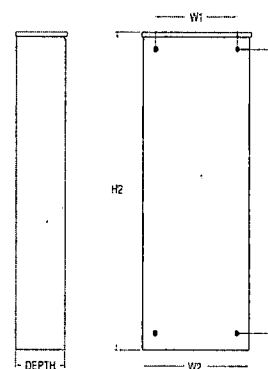
200 Amps 120/240, 1Ø Open Transition Service Rated					
	Height		Width		Depth
	H1	H2	W1	W2	
in	26.8	30.1	10.5	13.5	6.9
cm	67.95	76.43	26.67	34.18	17.5

Wire Ranges		
Conductor Lug	Neutral Lug	Ground Lug
250 MCM - #6	350 MCM - #6	2/0 - #14

Model G007210-0 (24 kW)

No. of poles	2
Current rating (amps)	200
Voltage rating (VAC)	120/240-1Ø
Utility voltage monitor (fixed)*	
-Pick-up	80%
-Dropout	65%
Return to Utility*	Approx. 13 sec
Exercises bi-weekly for 5 minutes*	Standard
ETL or UL listed	Standard
Enclosure type	NEMA 3R
Circuit breaker protected	22,000
Lug range	250 MCM - #6

*Function of Evolution controller
Exercise can be set to weekly, bi-weekly, or monthly

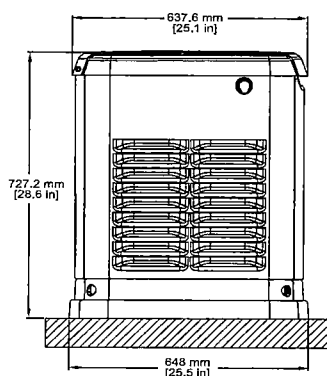


20/22/24 kW**Available Accessories**

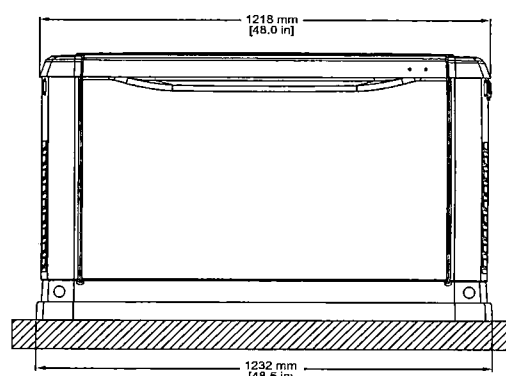
Model #	Product	Description
G005819-0	26R Wet Cell Battery	Every standby generator requires a battery to start the system. Generac offers the recommended 26R wet cell battery for use with all air-cooled standby product (excluding PowerPact®).
G007101-0	Battery Pad Warmer	Pad warmer rests under the battery. Recommended for use if temperature regularly falls below 0 °F (-18 °C). (Not necessary for use with AGM-style batteries).
G007102-0	Oil Warmer	Oil warmer slips directly over the oil filter. Recommended for use if temperature regularly falls below 0 °F (-18 °C).
G007103-1	Breather Warmer	Breather warmer is for use in extreme cold weather applications. For use with Evolution controllers only in climates where heavy icing occurs.
G005621-0	Auxiliary Transfer Switch Contact Kit	The auxiliary transfer switch contact kit allows the transfer switch to lock out a single large electrical load that may not be needed. Not compatible with 50 amp pre-wired switches.
G007027-0 - Bisque	Fascia Base Wrap Kit (Standard on 22 kW)	The fascia base wrap snaps together around the bottom of the new air-cooled generators. This offers a sleek, contoured appearance as well as offering protection from rodents and insects by covering the lifting holes located in the base.
G005703-0 - Bisque	Touch-Up Paint Kit	If the generator enclosure is scratched or damaged, it is important to touch up the paint to protect from future corrosion. The touch-up paint kit includes the necessary paint to correctly maintain or touch up a generator enclosure.
G006485-0	Scheduled Maintenance Kit	Generac's scheduled maintenance kit provides all the items necessary to perform complete routine maintenance on a Generac automatic standby generator (oil not included).
G007005-0	Wi-Fi LP Tank Fuel Level Monitor	The Wi-Fi enabled LP tank fuel level monitor provides constant monitoring of the connected LP fuel tank. Monitoring the LP tank's fuel level is an important step in verifying the generator is ready to run during an unexpected power failure. Status alerts are available through a free application to notify users when the LP tank is in need of a refill.
G007000-0 (50 amp) G007006-0 (100 amp)	Smart Management Module	Smart Management Modules (SMM) are used to optimize the performance of a standby generator. It manages large electrical loads upon startup and sheds them to aid in recovery when overloaded. In many cases, using SMM's can reduce the overall size and cost of the system.
G007169-0 - 4G LTE G007170-0 - Wi-Fi/ Ethernet	Mobile Link® Cellular Accessories	The Mobile Link family of Cellular Accessories allow users to monitor generator status from anywhere in the world, using a smart phone, tablet, or PC. Easily access information such as the current operating status and maintenance alerts. Users can connect an account with an authorized service dealer for fast, friendly, and proactive service. With Mobile Link, users are taken care of before the next power outage.
G007220-0 - Bisque	Base Plug Kit	Base plugs snap into the lifting holes on the base of air-cooled home standby generators. This offers a sleek, contoured appearance, as well as offers protection from rodents and insects by covering the lifting holes located in the base. Kit contains four plugs, sufficient for use on a single air-cooled home standby generator.

Dimensions & UPCs

Model	UPC
G007038-1	696471074185
G007038-3	696471074185
G007039-1	696471074192
G007039-3	696471074192
G007042-2	696471074208
G007042-3	696471074208
G007043-2	696471074215
G007043-3	696471074215
G007209-0	696471071511
G007210-0	696471078220

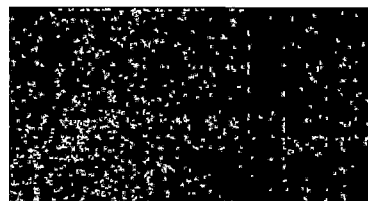


LEFT SIDE VIEW

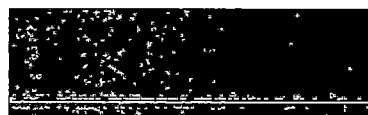


FRONT VIEW

Dimensions shown are approximate. See installation manual for exact dimensions. DO NOT USE THESE DIMENSIONS FOR INSTALLATION PURPOSES.



20/22/24 kW



GENERAC®

GUARDIAN® SERIES Residential Standby Generators Air-Cooled Gas Engine

20/22/24 kW

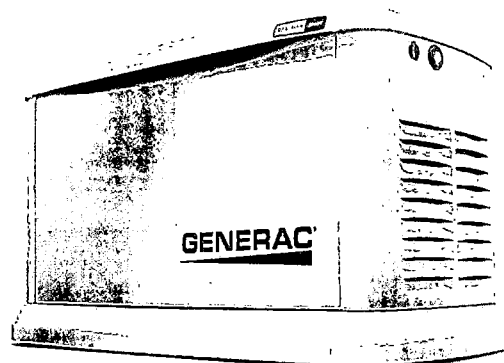
1 of 6

INCLUDES:

- True Power™ Electrical Technology
- Two-line multilingual digital LCD Evolution™ controller (English/Spanish/French/Portuguese)
- 200 amp service rated transfer switch available
- Electronic governor
- Standard Wi-Fi® connectivity
- System status & maintenance interval LED indicators
- Sound attenuated enclosure
- Flexible fuel line connector
- Natural gas or LP gas operation
- 5 Year limited warranty
- Listed and labeled by the Southwest Research Institute allowing installation as close as 18 in (457 mm) to a structure.*
*Must be located away from doors, windows, and fresh air intakes and in accordance with local codes.
https://assets.swri.org/library/DirectoryOfListedProducts/ConstructionIndustry/973_DoC_204_13204-01-01_Rev9.pdf

Standby Power Rating

G007038-1, G007039-1, G007038-3, G007039-3 (Aluminum - Bisque) - 20 kW 60 Hz
G007042-2, G007043-2, G007042-3, G007043-3 (Aluminum - Bisque) - 22 kW 60 Hz
G007209-0, G007210-0 (Aluminum - Bisque) - 24 kW 60 Hz



QUIET TEST™



Note: CETL or CUL certification only applies to unbundled units and units packaged with limited circuit switches. Units packaged with the Smart Switch are ETL or UL certified in the USA only.

FEATURES

- **INNOVATIVE ENGINE DESIGN & RIGOROUS TESTING** are at the heart of Generac's success in providing the most reliable generators possible. Generac's G-Force engine lineup offers added peace of mind and reliability for when it's needed the most. The G-Force series engines are purpose built and designed to handle the rigors of extended run times in high temperatures and extreme operating conditions.
- **TRUE POWER™ ELECTRICAL TECHNOLOGY:** Superior harmonics and sine wave form produce less than 5% Total Harmonic Distortion for utility quality power. This allows confident operation of sensitive electronic equipment and micro-chip based appliances, such as variable speed HVAC systems.
- **TEST CRITERIA:**
 - ✓ **PROTOTYPE TESTED**
 - ✓ **SYSTEM TORSIONAL TESTED**
 - ✓ **NEMA MG1-22 EVALUATION**
 - ✓ **MOTOR STARTING ABILITY**
- **MOBILE LINK® CONNECTIVITY:** FREE with select Guardian Series Home standby generators, Mobile Link Wi-Fi allows users to monitor generator status from anywhere in the world using a smartphone, tablet, or PC. Easily access information such as the current operating status and maintenance alerts. Users can connect an account to an authorized service dealer for fast, friendly, and proactive service. With Mobile Link, users are taken care of before the next power outage.
- **SOLID-STATE, FREQUENCY COMPENSATED VOLTAGE REGULATION:** This state-of-the-art power maximizing regulation system is standard on all Generac models. It provides optimized FAST RESPONSE to changing load conditions and MAXIMUM MOTOR STARTING CAPABILITY by electronically torque-matching the surge loads to the engine. Digital voltage regulation at $\pm 1\%$.
- **SINGLE SOURCE SERVICE RESPONSE** from Generac's extensive dealer network provides parts and service know-how for the entire unit, from the engine to the smallest electronic component.
- **GENERAC TRANSFER SWITCHES:** Long life and reliability are synonymous with GENERAC POWER SYSTEMS. One reason for this confidence is that the GENERAC product line is offered with its own transfer systems and controls for total system compatibility.
- **PWRVIEW™ TRANSFER SWITCH:** The Generac PWRview Automatic Transfer Switch integrates the PWRview energy monitor to provide real-time energy consumption data that can help lower a home's electricity bill. Using a convenient mobile app, homeowners can access energy usage and alert information while under utility power or generator power. The PWRview energy monitor is a simple to use and low cost tool which helps save money over the life of the generator. Included with model G007210-0.

THE GENERAC
PROMISE



GENERAC

PWRVIEW

20/22/24 kW**Features and Benefits****Engine**

- Generac G-Force design
- "Spiny-lok" cast iron cylinder walls
- Electronic ignition/spark advance
- Full pressure lubrication system
- Low oil pressure shutdown system
- High temperature shutdown

Maximizes engine "breathing" for increased fuel efficiency. Plateau honed cylinder walls and plasma moly rings help the engine run cooler, reducing oil consumption and resulting in longer engine life.

Rigid construction and added durability provide long engine life.

These features combine to assure smooth, quick starting every time.

Pressurized lubrication to all vital bearings means better performance, less maintenance, and longer engine life. Now featuring up to a 2 year/200 hour oil change interval.

Shutdown protection prevents catastrophic engine damage due to low oil.

Prevents damage due to overheating.

Generator

- Revolving field
- Skewed stator
- Displaced phase excitation
- Automatic voltage regulation
- UL 2200 listed

Allows for a smaller, light weight unit that operates 25% more efficiently than a revolving armature generator.

Produces a smooth output waveform for compatibility with electronic equipment.

Maximizes motor starting capability.

Regulating output voltage to $\pm 1\%$ prevents damaging voltage spikes.

For your safety.

Transfer Switch (if applicable)

- Fully automatic
- NEMA 3R
- Integrated load management technology
- Remote mounting

Transfers vital electrical loads to the energized source of power.

Can be installed inside or outside for maximum flexibility.

Capability to manage additional loads for efficient power management.

Mounts near an existing distribution panel for simple, low-cost installation.

PWRview Transfer Switch (if applicable)

- PWRview energy monitor
- Ability to view real-time energy consumption data
- PWRview mobile app

Energy usage at-a-glance.

Better understand the home's energy profile.

Access daily energy intelligence and insights.

Evolution™ Controls

- AUTO/MANUAL/OFF illuminated buttons
- Two-line multilingual LCD
- Sealed, raised buttons
- Utility voltage sensing
- Generator voltage sensing
- Utility interrupt delay
- Engine warm-up
- Engine cool-down
- Programmable exercise
- Smart battery charger
- Main line circuit breaker
- Electronic governor

Selects the operating mode and provides easy, at-a-glance status indication in any condition.

Provides homeowners easily visible logs of history, maintenance, and events up to 50 occurrences.

Smooth, weather-resistant user interface for programming and operations.

Constantly monitors utility voltage, setpoints 65% dropout, 80% pick-up, of standard voltage.

Constantly monitors generator voltage to verify the cleanest power delivered to the home.

Prevents nuisance start-ups of the engine, adjustable 2-1500 seconds from the factory default setting of 5 seconds by a qualified dealer.

Verifies engine is ready to assume the load, setpoint approximately 5 seconds.

Allows engine to cool prior to shutdown, setpoint approximately 1 minute.

Operates engine to prevent oil seal drying and damage between power outages by running the generator for 5 minutes every other week. Also offers a selectable setting for weekly or monthly operation providing flexibility and potentially lower fuel costs to the owner.

Delivers charge to the battery only when needed at varying rates depending on outdoor air temperature.

Compatible with lead acid and AGM-style batteries.

Protects generator from overload.

Maintains constant 60 Hz frequency.

20/22/24 kW

Features and Benefits

Unit

- SAE weather protective enclosure
Sound attenuated enclosures ensure quiet operation and protection against mother nature, withstanding winds up to 150 mph (241 km/h). Hinged key locking roof panel for security. Lift-out front for easy access to all routine maintenance items. Electrostatically applied textured epoxy paint for added durability.
- Enclosed critical grade muffler
Quiet, critical grade muffler is mounted inside the unit to prevent injuries.
- Small, compact, attractive
Makes for an easy, eye appealing installation, as close as 18 in (457 mm) away from a structure.

Installation System

- 14 in (35.6 cm) flexible fuel line connector
Listed ANSI Z21.75/CSA 6.27 outdoor appliance connector for the required connection to the gas supply piping.
- Integral sediment trap
Meets IFGC and NFPA 54 installation requirements.

Connectivity (Wi-Fi equipped models only)

- Ability to view generator status
Monitor generator with a smartphone, tablet, or computer at any time via the Mobile Link application for complete peace of mind.
- Ability to view generator Exercise/Run and Total Hours
Review the generator's complete protection profile for exercise hours and total hours.
- Ability to view generator maintenance information
Provides maintenance information for the specific model generator when scheduled maintenance is due.
- Monthly report with previous month's activity
Detailed monthly reports provide historical generator information.
- Ability to view generator battery information
Built in battery diagnostics displaying current state of the battery.
- Weather information
Provides detailed local ambient weather conditions for generator location.

Specifications

20/22/24 kW

Generator

Model	G007038-1 G007039-1 (20 kW)	G007042-2 G007043-2 (22 kW)	G007038-3 G007039-3 (20 kW)	G007042-3 G007043-3 (22 kW)	G007209-0 G007210-0 (24 kW)
Rated maximum continuous power capacity (LP)	20,000 Watts*	22,000 Watts*	20,000 Watts*	22,000 Watts*	24,000 Watts*
Rated maximum continuous power capacity (NG)	18,000 Watts*	19,500 Watts*	18,000 Watts*	19,500 Watts*	21,000 Watts*
Rated voltage	240				
Rated maximum continuous load current – 240 volts (LP/NG)	83.3 / 75.0	91.7 / 81.3	83.3 / 75.0	91.7 / 81.3	100 / 87.5
Total Harmonic Distortion	Less than 5%				
Main line circuit breaker	90 amp	100 amp	90 amp	100 amp	100 amp
Phase	1				
Number of rotor poles	2				
Rated AC frequency	60 Hz				
Power factor	1.0				
Battery requirement (not included)	12 Volts, Group 26R 540 CCA minimum or Group 35AGM 650 CCA minimum				
Unit weight (lb / kg)	448 / 203	466 / 211	436 / 198	445 / 202	455 / 206
Dimensions (L x W x H) in / cm	48 x 25 x 29 / 121.9 x 63.5 x 73.7				
Sound output in dB(A) at 23 ft (7 m) with generator operating at normal load**	67	67	67	67	67
Sound output in dB(A) at 23 ft (7 m) with generator in Quiet-Test™ low-speed exercise mode**	55	57	55	57	57
Exercise duration	5 min				

Engine

Engine type	GENERAC G-Force 1000 Series				
Number of cylinders	2				
Displacement	999 cc				
Cylinder block	Aluminum w/ cast iron sleeve				
Valve arrangement	Overhead valve				
Ignition system	Solid-state w/ magneto				
Governor system	Electronic				
Compression ratio	9.5:1				
Starter	12 VDC				
Oil capacity including filter	Approx. 1.9 qt / 1.8 L				
Operating rpm	3,600				
Fuel consumption					
Natural gas	ft ³ /hr (m ³ /hr)				
1/2 Load	204 (5.78)	228 (6.46)	164 (4.64)	203 (5.75)	
Full Load	301 (8.52)	327 (9.26)	287 (8.13)	306 (8.66)	
Liquid propane	ft ³ /hr (gal/hr) (L/hr)				
1/2 Load	87 (2.37) [8.99]	92 (2.53) [9.57]	86 (2.36) [8.95]	92 (2.53) [9.57]	
Full Load	130 (3.56) [13.48]	142 (3.90) [14.77]	136 (3.74) [14.15]	142 (3.90) [14.77]	

Note: Fuel pipe must be sized for full load. Required fuel pressure to generator fuel inlet at all load ranges – 3.5–7 in water column (0.87–1.74 kPa) for NG, 10–12 in water column (2.49–2.99 kPa) for LP gas. For BTU content, multiply ft³/hr x 2500 (LP) or ft³/hr x 1000 (NG). For Megajoule content, multiply m³/hr x 93.15 (LP) or m³/hr x 37.26 (NG).

Controls

Two-line plain text multilingual LCD	Simple user interface for ease of operation.
Mode buttons: AUTO	Automatic start on utility failure. Weekly, bi-weekly, or monthly selectable exercise.
MANUAL	Start with starter control, unit stays on. If utility fails, transfer to load takes place.
OFF	Stops unit. Power is removed. Control and charger still operate.
Ready to Run/Maintenance messages	Standard
Engine run hours indication	Standard
Programmable start delay between 2–1500 seconds	Standard (programmable by dealer only)
Utility Voltage Loss/Return to Utility adjustable (brownout setting)	From 140–171 V / 190–216 V
Future Set Capable Exercise/Exercise Set Error warning	Standard
Run/Alarm/Maintenance logs	50 events each
Engine start sequence	Cyclic cranking: 16 sec on, 7 rest (90 sec maximum duration).
Starter lock-out	Starter cannot re-engage until 5 sec after engine has stopped.
Smart Battery Charger	Standard
Charger Fault/Missing AC warning	Standard
Low Battery/Battery Problem Protection and Battery Condition indication	Standard
Automatic Voltage Regulation with Over and Under Voltage Protection	Standard
Under-Frequency/Overload/Stepper Overcurrent Protection	Standard
Safety Fused/Fuse Problem Protection	Standard
Automatic Low Oil Pressure/High Oil Temperature Shutdown	Standard
Overcrank/Overspeed (@ 72 Hz)/rpm Sense Loss Shutdown	Standard
High Engine Temperature Shutdown	Standard
Internal Fault/Incorrect Wiring protection	Standard
Common external fault capability	Standard
Field upgradable firmware	Standard

**Sound levels are taken from the front of the generator. Sound levels taken from other sides of the generator may be higher depending on installation parameters. Rating definitions – Standby: Applicable for supplying emergency power for the duration of the utility power outage. No overload capability is available for this rating. (All ratings in accordance with BS5514, ISO3046 and DIN6271). * Maximum kilovolt amps and current are subject to and limited by such factors as fuel BTU/megajoule content, ambient temperature, altitude, engine power and condition, etc. Maximum power decreases approximately 3.5% for each 1,000 ft (304.8 m) above sea level; and also will decrease approximately 1% for each 10 °F (6 °C) above 60 °F (16 °C).

Service Rated Automatic Transfer Switch Features

- Intelligently manages up to four air conditioner loads with no additional hardware.
- Up to eight additional large (240 VAC) loads can be managed when used in conjunction with Smart Management Modules (SMMs).
- Electrically operated, mechanically-held contacts for fast, clean connections.
- Rated for all classes of load, 100% equipment rated, both inductive and resistive.
- 2-pole, 250 VAC contactors.
- Service equipment rated, dual coil design.
- Rated for both aluminum and copper conductors.
- Main contacts are silver plated or silver alloy to resist welding and sticking.
- NEMA/UL 3R aluminum outdoor enclosure allows for indoor or outdoor mounting flexibility.

Dimensions

	200 Amps 120/240, 1Ø Open Transition Service Rated				
	Height		Width		Depth
	H1	H2	W1	W2	
in	26.8	30.1	10.5	13.5	6.9
cm	67.95	76.43	26.67	34.18	17.5

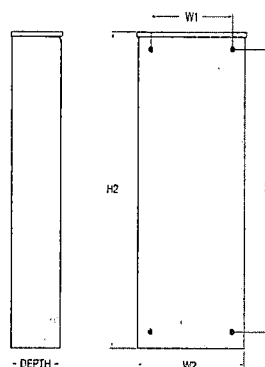
Wire Ranges		
Conductor Lug	Neutral Lug	Ground Lug
250 MCM - #6	350 MCM - #6	2/0 - #14

Model

G007039-1, G007039-3 (20 kW)
G007043-2, G007043-3 (22 kW)

No. of poles	2
Current rating (amps)	200
Voltage rating (VAC)	120/240-1Ø
Utility voltage monitor (fixed)*	
-Pick-up	80%
-Dropout	65%
Return to Utility*	Approx. 13 sec
Exercises bi-weekly for 5 minutes*	Standard
ETL or UL listed	Standard
Enclosure type	NEMA/UL 3R
Circuit breaker protected	22,000
Lug range	250 MCM - #6

*Function of Evolution controller
Exercise can be set to weekly, bi-weekly, or monthly



PWRview Automatic Transfer Switch Features

- Integrated PWRview monitor provides real-time energy usage data through PWRview app.
- Intelligently manages up to four air conditioner loads with no additional hardware.
- Up to eight additional large (240 VAC) loads can be managed when used in conjunction with Smart Management Modules (SMMs).
- Electrically operated, mechanically-held contacts for fast, clean connections.
- Rated for all classes of load, 100% equipment rated, both inductive and resistive.
- 2-pole, 250 VAC contactors.
- Service equipment rated, dual coil design.
- Rated for both aluminum and copper conductors.
- Main contacts are silver plated or silver alloy to resist welding and sticking.
- NEMA 3R aluminum outdoor enclosure allows for indoor or outdoor mounting flexibility.
- Heavy duty Generac Contactor is an ETL recognized device.

Dimensions

	200 Amps 120/240, 1Ø Open Transition Service Rated				
	Height		Width		Depth
	H1	H2	W1	W2	
in	26.8	30.1	10.5	13.5	6.9
cm	67.95	76.43	26.67	34.18	17.5

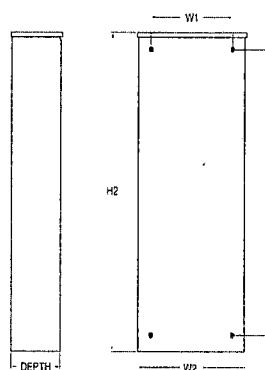
Wire Ranges		
Conductor Lug	Neutral Lug	Ground Lug
250 MCM - #6	350 MCM - #6	2/0 - #14

Model

G007210-0 (24 kW)

No. of poles	2
Current rating (amps)	200
Voltage rating (VAC)	120/240-1Ø
Utility voltage monitor (fixed)*	
-Pick-up	80%
-Dropout	65%
Return to Utility*	Approx. 13 sec
Exercises bi-weekly for 5 minutes*	Standard
ETL or UL listed	Standard
Enclosure type	NEMA 3R
Circuit breaker protected	22,000
Lug range	250 MCM - #6

*Function of Evolution controller
Exercise can be set to weekly, bi-weekly, or monthly

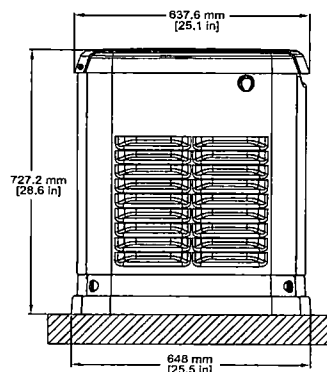


20/22/24 kW**Available Accessories**

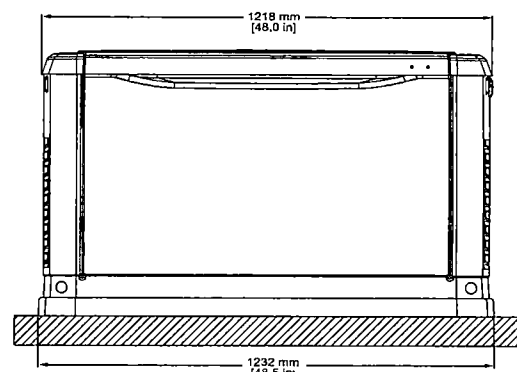
Model #	Product	Description
G005819-0	26R Wet Cell Battery	Every standby generator requires a battery to start the system. Generac offers the recommended 26R wet cell battery for use with all air-cooled standby product (excluding PowerPact®).
G007101-0	Battery Pad Warmer	Pad warmer rests under the battery. Recommended for use if temperature regularly falls below 0 °F (-18 °C). (Not necessary for use with AGM-style batteries).
G007102-0	Oil Warmer	Oil warmer slips directly over the oil filter. Recommended for use if temperature regularly falls below 0 °F (-18 °C).
G007103-1	Breather Warmer	Breather warmer is for use in extreme cold weather applications. For use with Evolution controllers only in climates where heavy icing occurs.
G005621-0	Auxiliary Transfer Switch Contact Kit	The auxiliary transfer switch contact kit allows the transfer switch to lock out a single large electrical load that may not be needed. Not compatible with 50 amp pre-wired switches.
G007027-0 - Bisque	Fascia Base Wrap Kit (Standard on 22 kW)	The fascia base wrap snaps together around the bottom of the new air-cooled generators. This offers a sleek, contoured appearance as well as offering protection from rodents and insects by covering the lifting holes located in the base.
G005703-0 - Bisque	Touch-Up Paint Kit	If the generator enclosure is scratched or damaged, it is important to touch up the paint to protect from future corrosion. The touch-up paint kit includes the necessary paint to correctly maintain or touch up a generator enclosure.
G006485-0	Scheduled Maintenance Kit	Generac's scheduled maintenance kit provides all the items necessary to perform complete routine maintenance on a Generac automatic standby generator (oil not included).
G007005-0	Wi-Fi LP Tank Fuel Level Monitor	The Wi-Fi enabled LP tank fuel level monitor provides constant monitoring of the connected LP fuel tank. Monitoring the LP tank's fuel level is an important step in verifying the generator is ready to run during an unexpected power failure. Status alerts are available through a free application to notify users when the LP tank is in need of a refill.
G007000-0 (50 amp) G007006-0 (100 amp)	Smart Management Module	Smart Management Modules (SMM) are used to optimize the performance of a standby generator. It manages large electrical loads upon startup and sheds them to aid in recovery when overloaded. In many cases, using SMM's can reduce the overall size and cost of the system.
G007169-0 - 4G LTE G007170-0 - Wi-Fi/ Ethernet	Mobile Link® Cellular Accessories	The Mobile Link family of Cellular Accessories allow users to monitor generator status from anywhere in the world, using a smart phone, tablet, or PC. Easily access information such as the current operating status and maintenance alerts. Users can connect an account with an authorized service dealer for fast, friendly, and proactive service. With Mobile Link, users are taken care of before the next power outage.
G007220-0 - Bisque	Base Plug Kit	Base plugs snap into the lifting holes on the base of air-cooled home standby generators. This offers a sleek, contoured appearance, as well as offers protection from rodents and insects by covering the lifting holes located in the base. Kit contains four plugs, sufficient for use on a single air-cooled home standby generator.

Dimensions & UPCs

Model	UPC
G007038-1	696471074185
G007038-3	696471074185
G007039-1	696471074192
G007039-3	696471074192
G007042-2	696471074208
G007042-3	696471074208
G007043-2	696471074215
G007043-3	696471074215
G007209-0	696471071511
G007210-0	696471078220



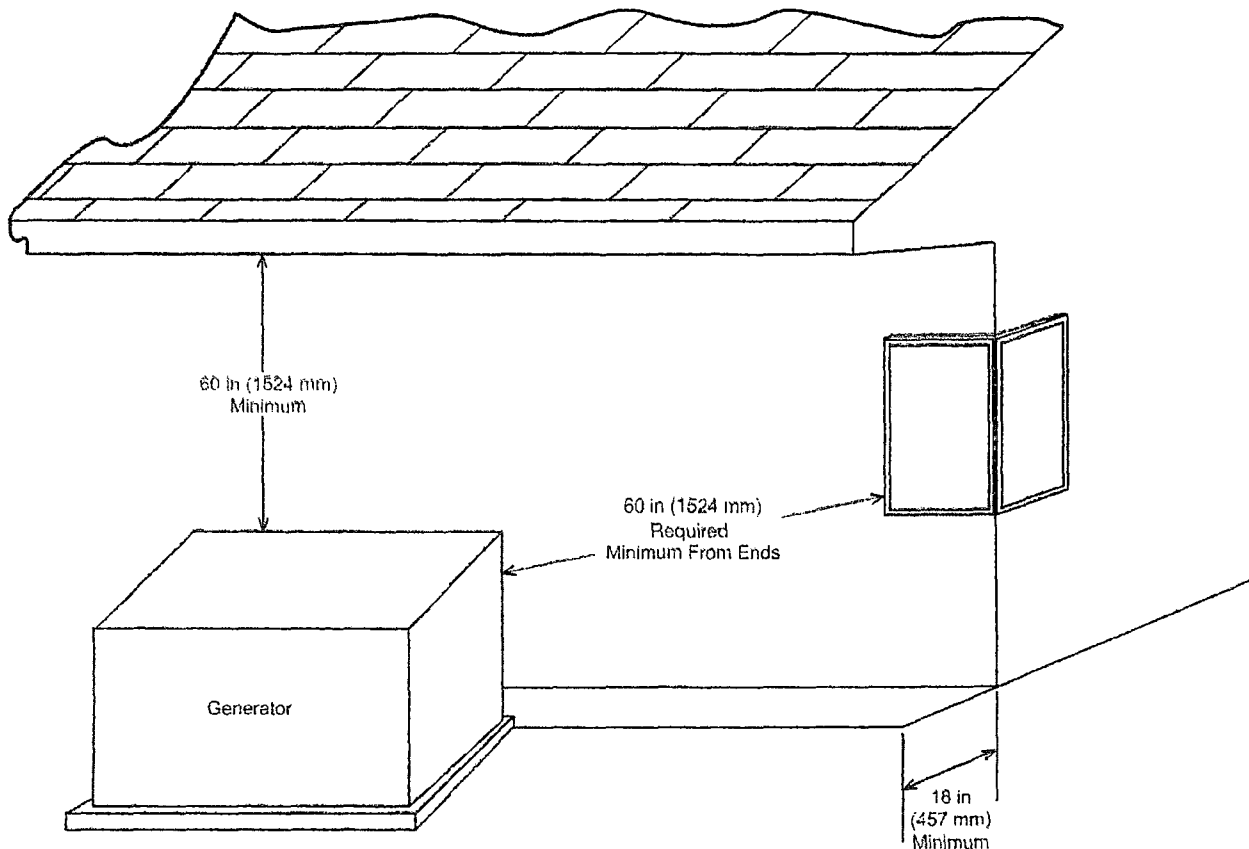
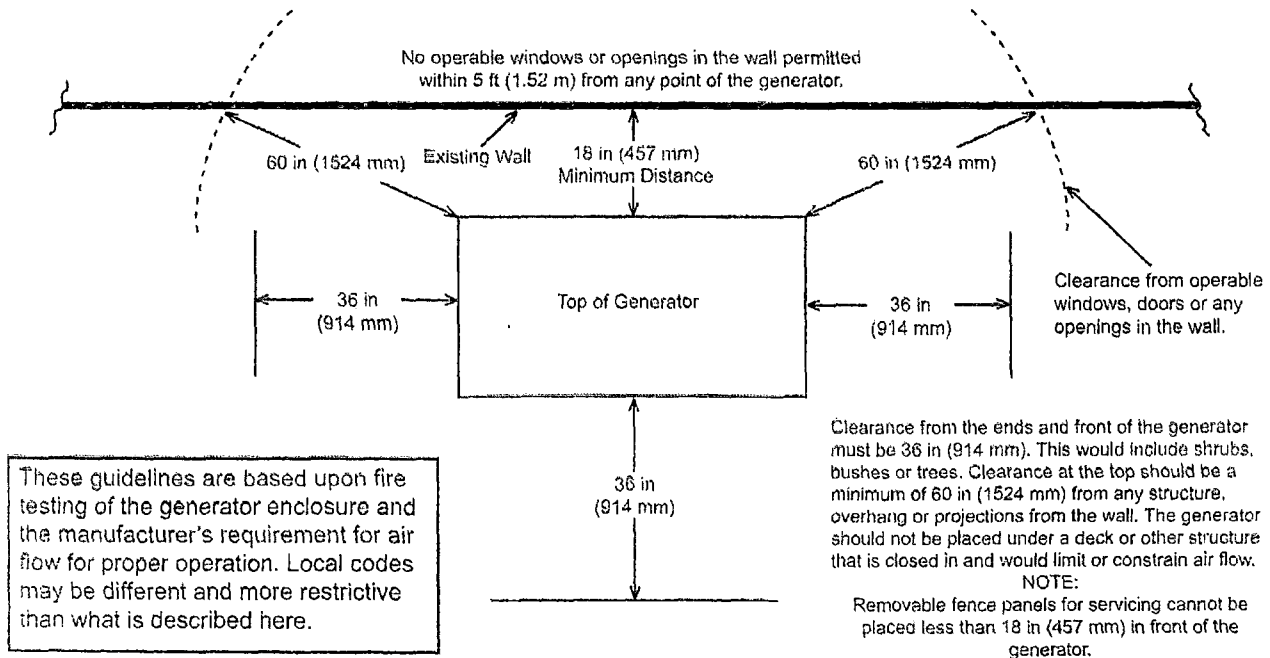
LEFT SIDE VIEW



FRONT VIEW

Dimensions shown are approximate. See installation manual for exact dimensions. DO NOT USE THESE DIMENSIONS FOR INSTALLATION PURPOSES.

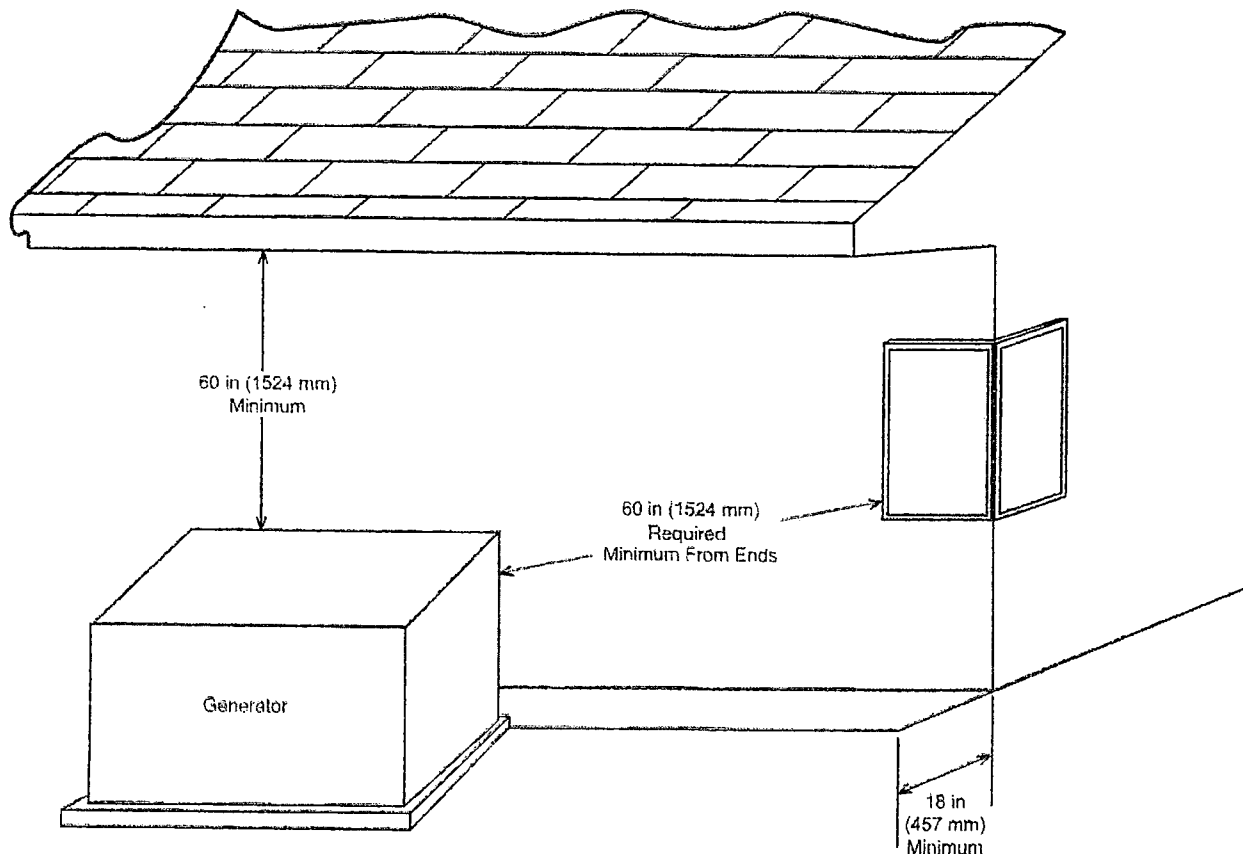
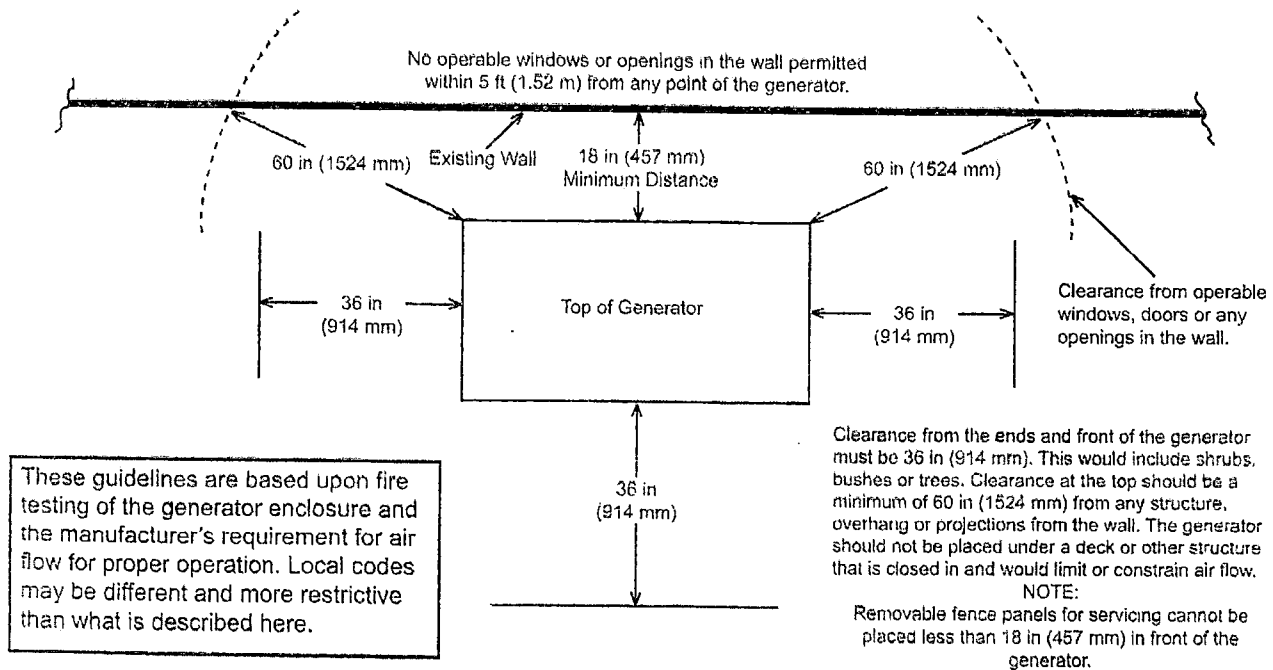
PLACEMENT DIAGRAM — AIR-COOLED GENERATORS



NOTE:

The generator can be placed under decks or structures as long as all clearances are met and local building codes are followed.

PLACEMENT DIAGRAM — AIR-COOLED GENERATORS



NOTE:

The generator can be placed under decks or structures as long as all clearances are met and local building codes are followed.

ENGINEERING PERMIT APPLICATION

BLOCK: 838

LOT: 22.02

ADDRESS: 1683 Tilford Place Brick, NJ 08724

RECEIVING CLERK: _____

PERMIT #: _____

IDENTIFICATION:

1. WORK SITE ADDRESS: 1683 Tilford Place Brick, NJ 08724
2. NAME OF OWNER IN FEE: Mike Abatemarco
ADDRESS: 1683 Tilford Place PHONE: [REDACTED]
Brick, NJ 08724 FAX #: ()
3. PRINCIPAL CONTRACTOR: For-Tech Electric
ADDRESS: 500 James St Unit 11 PHONE #: 7323678324
Lakewood, NJ 08701 FAX #: 7323678322
4. ARCHITECT OR ENGINEER: _____
ADDRESS: _____ PHONE: # ()
5. RESPONSIBLE PERSON FOR WORK: Yaakov Forchheimer
ADDRESS: 500 James St Unit 11 Lakewood NJ 08701
PHONE #: 7323678324 FAX #: 7323678322 E-MAIL: info@fortechelectric.com

PROJECT DESCRIPTION: ☐ GRADING/CLEARING ☐ ROAD OPENING
☐ SOIL REMOVAL/FILL ☐ RETAINING WALL ☐ POOL
☐ BULKHEAD/DOCK ☐ DWELLING ☐ TREE REMOVAL
☒ OTHER Generator
LENGTH: 48" WIDTH: 24" HEIGHT: 30"

FEE SUMMARY:

APPLICATION FEE: \$ _____
REVIEW FEE: \$ _____
INSPECTION FEE: \$ _____
OTHER: \$ _____
BOND(S): \$ _____
TOTAL: \$ _____

SPECIAL CONDITIONS:

OCEAN COUNTY SOILS: _____
DRAINAGE EASEMENTS: _____
UTILITY EASEMENTS: _____
CONSERVATION EASEMENTS: _____
FEMA REQUIREMENTS: _____
D.E.P. PERMITS: _____
BOARD APPROVAL: ☐ PB ☐ ZB
APPLICATION NUMBER: _____
APPROVED DATE: _____

ENGINEERING REVIEW:

DATE RECEIVED: 10.25.21 DATE REJECTED: _____ DATE APPROVED: 10.25.21 INITIALS: a

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OR PLUMBER'S
LICENSE

State Of New Jersey
New Jersey Office of the Attorney General
Division of Consumer Affairs

THIS IS TO CERTIFY THAT THE
Home Improvement Contractors

HAS REGISTERED

FOR-TECH ELECTRIC LLC
Yaakov Forchheimer
500 James St
Lakewood NJ 08701

FOR PRACTICE IN NEW JERSEY AS A(N): Home Improvement Contractor

03/11/2021 TO 03/31/2022
VALID

13VH07592600
LICENSE/REGISTRATION/CERTIFICATION #

Signature of Licensee/Registrant/Certificate Holder

ACTING DIRECTOR

NOT AN ELECTRICIAN'S OR PLUMBER'S LICENSE
03/11/2021 TO 03/31/2022
VALID
13VH07592600
License/Registration/Certificate #

Signature: *Paula Russo*
ACTING DIRECTOR

THIS IS TO CERTIFY THAT THE
HOME IMPROVEMENT CONTRACTORS
HAS REGISTERED
FOR-TECH ELECTRIC LLC
Home Improvement Contractor

New Jersey Office of the Attorney General
Division of Consumer Affairs

PLEASE DETACH HERE
IF YOUR LICENSE/REGISTRATION/
CERTIFICATE ID CARD IS LOST
PLEASE NOTIFY:
Home Improvement Contractors
P.O. Box 45016
Newark, NJ 07101

PLEASE DETACH HERE

FOR-TECH ELECTRIC LLC

EXPIRATION DATE 2022

YOUR LICENSE/REGISTRATION/CERTIFICATE NUMBER IS 13VH 07592600 . PLEASE USE IT IN ALL
CORRESPONDENCE TO THE DIVISION OF CONSUMER AFFAIRS. USE THIS SECTION TO REPORT ADDRESS
CHANGES. YOU ARE REQUIRED TO REPORT ANY ADDRESS CHANGES IMMEDIATELY TO THE ADDRESS NOTED
BELOW.

Home Improvement Contractors
P.O. Box 45016
Newark, NJ 07101

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YOUR ADDRESS OF RECORD IS THE ADDRESS THAT WILL PRINT ON
YOUR LICENSE/REGISTRATION/CERTIFICATE AND IT MAY BE MADE
AVAILABLE TO THE PUBLIC.

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BUSINESS ☐

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INCLUDE AREA CODE

If the law governing your profession requires the current license/registration/certificate to be displayed, it should be within reasonable proximity of your original license/registration/certificate at your principal office or place of business.



LICENSED | INSURED | BONDED NJ LIC#16624

P: (732-367-8324) 500 James St. Unit 11
F: (732-367-8322) Lakewood, NJ 08701

October 13, 2021
Brick Township
401 Chambers Bridge Road
Brick, NJ 8723

Dear Permit Clerk:

Please see the enclosed permit application for a new Generator at 1683 Tilford Blvd, Brick Block 838 / 22.02 Lot for Mike Abatemarco.

Please review the paperwork and be in touch with any questions or concerns, or if any additional information is needed from us.

We appreciate your prompt attention.

Thank you!

Rachel

732-367-8324

Rachel@fortechelectric.com