

POWERPROTECT: Standby Generators



RESIDENTIAL

Standby Generators



SPECIFICATIONS

OVERVIEW	
Brand	Briggs & Stratton
Series Name	PowerProtect™
Model Name	PPDX13
Power, Standby (LP/NG) (kW)	13 / 11.5
Rated AC Voltage (Volts) ¹	120 / 240
Rated Frequency (Hz)¹	60
Generator Breaker (Amps)	70
Operating Ambient Temperature (°C/ °F)	-28 to 40 / -20 to 104
Rated Amperage, Standby (LP/NG) (Amps) ¹	54.2 / 47.9
Rated Power Factor	1.0
Programmable Exercise Cycle	16 sec (default) - 20 mins
Engine	
Engine Brand/Manufacturer	Vanguard
Model Type	M38
Aspiration	Naturally Aspirated
Speed (RPM)	3600
Displacement (ci/cc)	38 / 627
Compression Ratio	8.3:1
Governor Type	SAE J1444 Class B Frequency Regulation
Bore & Stroke (in/mm)	2.97 x 2.76 / 75.5 x 70.1
Cylinder Block	Aluminum w Cast Iron Sleeve
Valve Arrangement	ОНУ



POWERPROTECT. Standby Generators



Number of Cylindors 2 Start Type	Engine	
Start Type Alr Filter Type Dry Low Oil Pressure Switch Yes Engine Oil Reater Available as an Accessory Rated Temperature ("F-"C) 77 / 26 Sound Ratting Cour Idle Mode Sound dB(A)* 89 Lubrichion System Type Full Pressure Oil Capacity (ex/L) 61 48 / 142 61 61 Filter (Quantity/Type) 70 Il Pand Schemended Oil 62 62 63 63 63 63 63 63 63 63 63 63 63 63 63	Engine Cylinder Configuration	V
Air Filter Type Low Oil Pressure Switch Engine Oil Heater Available as an Accessory Rated Temperature ("F."C) 77 / 25 Sound Rating Low Idle Mode Sound dB(A)* 69 Low Idle Mode Sound dB(A)* Normal Operating Sound dB(A)* Type Full Pressure Oil Capacity (oz/L) 42 / 1.42 Oil Filter (Quantity/Type) 71 / Cartridge Oil Brand Schaeffer Recommended Oil Sw30 Full Synthetic Electrical System Uariable Timing Battery Quantity 1 1 Battery Quantity 1 1 Battery Quantity 1 1 Battery CA (Amps) Battery Octage (VDC) 12 Full System Full Type Ng / LPV Full Supply Line Inlet Recommended Fuel, Lower Heating Value Minimum (Milym' / BTU/It*) Full Supply Pressure (mbar/in H ₀) Full Supply Pressure (mbar/in H ₀) Full Supply Pressure (mbar/in H ₀) Full Constumption No Load, NG (BTU/hr) No Load NG (BTU/hr)	Number of Cylinders	2
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Engine Oil Heater Rated Temperature ("F/"C) Rated Temperature ("F/"C) Round Rating Low Idle Mode Sound dB(A)* 65 Normal Operating Sound dB(A)* 69 Lubrication System Type Full Pressure Oil Capacity (oz/L) A8 / 142 Oil Filter (Quantity/Type) 1/ Cartridge Oil Brand Schaeffer Recommended Oil Recommended Oil Recommended Oil Recommended System Sattery Quantity 1 Sattery Quantity 1 Sattery Quantity 1 Sattery Olage (VDC) 12 Sattery Olage (VDC) 12 Sattery Olage (VDC) 13 Sattery Olage (VDC) 14 Sattery Olage (VDC) 15 Starter Motor Voltage (VDC) 16 Starter Motor Voltage (VDC) 17 Fuel System Fuel Type NG / LPV Fuel System Fuel	Air Filter Type	Dry
Rated Temperature ("F/"C) Sound Rating Low Idle Mode Sound dB(A)* 65 Normal Operating Sound dB(A)* 69 Lubrication System Type Full Pressure Oil Capacity (oz/L) 48 / 1.42 Oil Filter (Quantity/Type) 1 / Cartridge Oil Brand Schaeffer Recommended Oil 5W30 Full Synthetic Electrical System Unition System Variable Timing Battery Quantity 1 1 Battery Quantity 1 1 Battery Voltage (VDC) 12 Battery Doltage (VDC) 12 Battery Doltage (VDC) 12 Battery Doltage (VDC) 12 Fuel System NG / LPV Fuel System NG / LPV Fuel System NG / LPV Fuel System Fuel System NG / LPV Fuel System Fuel System NG / LPV Fuel System Fuel	Low Oil Pressure Switch	Yes
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Battery Quantity Battery Voltage (VDC) 12 Battery CCA (Amps) 540 Battery BCI Group Size 26 or 51 Starter Motor Voltage (VDC) 12 Fuel System Fuel Type NG / LPV Fuel Supply Line Inlet NG: 34.3 / 904 Minimum (MJ/m² / BTU/ft²) Fuel Supply Pressure (mbar/in H₂0) Fuel Consumption No Load, NG (BTU/hr) No Load, NG (BTU/hr) No Load NG (ft²/hr) 12 14 15 16 17 18 19 19 19 19 19 19 19 19 19	Electrical System	
Battery Voltage (VDC) Battery CCA (Amps) 540 Battery BCI Group Size 26 or 51 Starter Motor Voltage (VDC) 12 Fuel System Fuel Type NG / LPV Fuel Supply Line Inlet Recommended Fuel, Lower Heating Value Minimum (MJ/m³ / BTU/ft³) Fuel Supply Pressure (mbar/in H₂0) NG: 917 / 3.5-7 LPV: 28-34 / 11-14 Fuel Consumption No Load, NG (BTU/hr) 65,000	Ignition System	Variable Timing
Battery CCA (Amps) Battery BCI Group Size 26 or 51 Starter Motor Voltage (VDC) 12 Fuel System Fuel Type NG / LPV Fuel Supply Line Inlet Recommended Fuel, Lower Heating Value Minimum (MI/m³ / BTU/ft³) Fuel Supply Pressure (mbar/in H₂0) Fuel Consumption No Load, NG (BTU/hr) 65,000	Battery Quantity	1
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Fuel Type Fuel Type NG / LPV Fuel Supply Line Inlet Recommended Fuel, Lower Heating Value Minimum (MJ/m³ / BTU/ft³) Fuel Supply Pressure (mbar/in H₂0) Fuel Consumption No Load, NG (BTU/hr) No Load NG (ft³/hr) 12 NG / LPV NG / LPV NG / LPV NG / LPV NG / S4.3 / 904 LPV: 87.1 / 2338 NG / 9-17 / 3.5-7 LPV: 28-34 / 11-14 Fuel Consumption No Load NG (ft³/hr) 65,000	Battery CCA (Amps)	540
Fuel Type NG / LPV Fuel Supply Line Inlet Recommended Fuel, Lower Heating Value Minimum (MJ/m³ / BTU/ft³) Fuel Supply Pressure (mbar/in H₂0) Fuel Consumption No Load, NG (BTU/hr) 65,000 No Load NG (ft³/hr)	Battery BCI Group Size	26 or 51
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Fuel Supply Line Inlet Recommended Fuel, Lower Heating Value Minimum (MJ/m³ / BTU/ft³) Fuel Supply Pressure (mbar/in H₂0) NG: 9-17 / 3.5-7 LPV: 28-34 / 11-14 Fuel Consumption No Load, NG (BTU/hr) 65,000	Fuel System	
Recommended Fuel, Lower Heating Value Minimum (MJ/m³ / BTU/ft³) Fuel Supply Pressure (mbar/in H₂0) Fuel Consumption No Load, NG (BTU/hr) No Load NG (ft³/hr) NG: 34.3 / 904 LPV: 87.1 / 2338 NG: 9-17 / 3.5-7 LPV: 28-34 / 11-14 Fuel Consumption 65,000	Fuel Type	NG / LPV
Minimum (MJ/m³ / BTU/ft³) LPV: 87.1 / 2338 Fuel Supply Pressure (mbar/in H₂0) NG: 9-17 / 3.5-7 LPV: 28-34 / 11-14 Fuel Consumption 65,000 No Load, NG (BTU/hr) 65 No Load NG (ft³/hr) 65	Fuel Supply Line Inlet	3/4" NPT
Fuel Consumption No Load, NG (BTU/hr) No Load NG (ft³/hr) 65,000	Recommended Fuel, Lower Heating Value Minimum (MJ/m³ / BTU/ft³)	
No Load, NG (BTU/hr) 65,000 No Load NG (ft³/hr) 65	Fuel Supply Pressure (mbar/in H ₂ 0)	
No Load NG (ft³/hr) 65	Fuel Consumption	
	No Load, NG (BTU/hr)	65,000
Half Load, NG (BTU/hr) 119,000	No Load NG (ft³/hr)	65
	Half Load, NG (BTU/hr)	119,000



POWERPROTECT: Standby Generators



Fuel Consumption	
Half Load, NG (ft³/hr)	119
Full Load, NG (BTU/hr)	212,000
Full Load, NG (ft³/hr)	212
No Load, LP (BTU/hr)	70,000
No Load, LP (ft³/hr)	28
No Load, LP (gal/hr)	0.8
Half Load, LP (BTU/hr)	154,000
Half Load, LP (ft³/hr)	62
Half Load, LP (gal/hr)	1.7
Full Load, LP (BTU/hr)	258,000
Full Load, LP (ft³/hr)	103
Full Load, LP (gal/hr)	2.9
Alternator Specifications	
Alternator Type	Synchronous, Self-Excited, Rotating Field
Alternator Manufacturer	MeccAlte
Rated Frequency (Hz)¹	60
Rated Phase ¹	1
Insulation Rating (Class)	н
Designed Temperature Rise (°C)	105
Bearing (Quantity/Type)	1 / Sealed
Number of Poles	2
Voltage Regulator	Brushed / Electronic
Motor Starting Capability (kVA)	37
Total Harmonic Distortion (THD), NL to FL (%)	< 5
Controls / Instrumentation	
Controller	GC-1032
Charger	Stand Alone
Starting	AMF or 2-wire
LED Display with Fault Code Indications	Yes
Real Time Clock	Yes
Engine Hour Counter	Yes
Engine Runtime Scheduler	Yes



POWERPROTECT Standby Generators



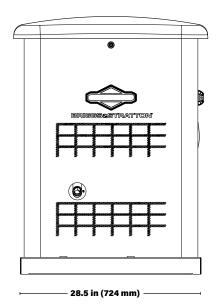
Controls / Instrumentation	
Low Oil Pressure Shutdown	Yes
High Temperature Shutdown	Yes
Other Features	
Battery Rack and Cables	Yes
Fuel Solenoid Valve	Yes
Integral Vibration Isolation	Yes
Oil Drain Extension	Yes
Operation and Installation Manual(s)	Yes
Enclosure	Aluminum
Enclosure Wind Speed Rating (mph)	186
Accessories	
Maintenance Kit	6873
Oil Warmer	6922
Fuel Regulator Warmer	6845
Surge Protector	6631
InfoHub™ Universal - Cellular	6574
Limited Warranty⁴	
Warranty: Generator, Domestic & Canada (Parts / Labor / Travel) — Years	10
Warranty: Enclosure, Surface Rust and Corrosion (Parts / Labor / Travel) — Years	1
Warranty: Enclosure, Rust Through (Parts / Labor / Travel) — Years	3
Certifications	
UL	Yes
cUL	Yes
FCC	Yes
Massachusetts Plumbers and Gasfitters	Yes
NFPA 37	18" Installation Clearance from House ⁵

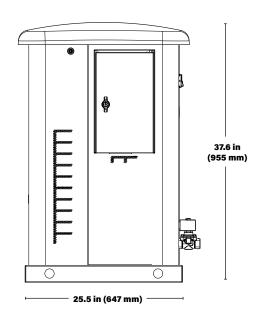


POWERPROTECT Standby Generators



Weights & Dimensions	
Assembled Dimensions (Length x Width x Height) (in / mm)	28.5 x 25.5 x 37.6 / 724 x 647 x 955
Assembled Weight (lbs / kg)	315 / 143
Packaged Dimensions (Length x Width x Height) (in / mm)	39.0 x 33.5 x 45.0 / 991 x 851 x 1143
Packaged Weight (lbs / kg)	370 / 168
Outline and Pad Layout Drawing	80113669









- ¹ This generator is rated in accordance with UL (Underwriters Laboratories) 2200 (stationary engine generator assemblies) and CSA (Canadian Standards Association) standard C22.2 No. 100-14 (motor and generators).
- ² Per ISO 3744. Sound level measurement at other locations around generator may differ depending on installation, based on lowest microphone at 7m. Normal operation based on average household usage.
- ³ Fuel consumption rates are estimated based on normal operating conditions. Generator operation may be greatly affected by elevation and the cycling operation of multiple electrical appliances fuel flow rates may vary depending on these factors.
- ⁴ See operator's manual or energy.briggsandstratton.com for complete warranty details.
- ⁵ Listing and labeling to NFPA 37 per Southwest Research Institute.