

POWERPROTECT: Standby Generators



RESIDENTIAL

Standby Generators



SPECIFICATIONS

OVERVIEW	
Brand	Briggs & Stratton®
Series Name	Power Protect [™]
Model Name	PP20
Model Number	040662
Rated AC Voltage (Volts)	120 / 240
Frequency (Hz)	60
Generator Breaker (Amps)	100
Operating Ambient Temperature (°C / °F)	-28 - 40 / -20 - 104
Running Amperage, Standby (LP / NG) (Amps)	83.3 / 83.3
Running Watts, Standby (LP / NG) (kW)	201 / 20
Power Factor	1.0
Exercise Duration	16 seconds
Engine	
Engine Brand/Manufacturer	Vanguard®
Model Type	M61
Aspiration	Naturally Aspirated
Speed (RPM)	3600
Displacement (ci/cc)	61 / 993
Compression Ratio	9.7:1
Governor Type	Electronic



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Engine	
Bore & Stroke (mm / in)	85.5 x 86.5 / 3.37 x 3.41
Cylinder Block	Aluminum with Cast Iron Sleeve
Valve Arrangement	OHV
Engine Cylinder Configuration	V
Number of Cylinders	2
Start Type	Automatic
Frequency Regulation Steady State, No Load to Full Load (%)	+/- 1.0
Air Filter Type	Dry
Low Oil Pressure Switch	Yes
Engine Oil Heater	Optional
Rated Temperature (°C / °F)	25 / 77
Sound Rating ²	
Low Idle Mode Sound dB(A)	65
Normal Operating Sound ² dB(A)	68
Lubrication System	
Туре	Full Pressure
Oil Capacity (oz / L)	78 / 2.31
Oil Filter (Quantity / Type)	1 / Cartridge
Oil Brand	Schaeffer
Recommended Oil	5W30 Full Synthetic
Electrical System	
Ignition System	Variable Timing
Battery Quantity	1
Battery Voltage (VDC)	12
Battery CCA (Amps)	540
Battery Grouping Size	26 or 51
Starter Motor Voltage (VDC)	12
Fuel System	
Fuel Type	NG / LPV
Fuel Supply Line Inlet	3/4" NPT
Recommended Fuel, Lower Heating Value Minimum (MJ/m³ / BTU/ft³)	NG: 34.3 / 904 LPV: 87.1 / 2338
Fuel Supply Pressure (mbar / in H2O)	NG: 9-17 / 3.5-7 LPV: 28-34 / 11-14



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Fuel Consumption ³		
No Load, NG (BTU/hr)	99,000	
No Load, NG (ft³/hr)	99	
Half Load, NG (BTU/hr)	187,000	
Half Load, NG (ft³/hr)	187	
Full Load, NG (BTU/hr)	260,000	
Full Load, NG (ft³/hr)	260	
No Load, LP (BTU/hr)	100,000	
No Load, LP (ft³/hr)	40	
No Load, LP (gal/hr)	1.10	
Half Load, LP (BTU/hr)	208,000	
Half Load, LP (ft³/hr)	83	
Half Load, LP (gal/hr)	2.3	
Full Load, LP (BTU/hr)	338,000	
Full Load, LP (ft³/hr)	135	
Full Load, LP (gal/hr)	3.7	
Alternator Specifications		
Alternator Type	Self-Excited, Rotating Field	
Alternator Manufacturer	Briggs & Stratton	
Frequency (Hz)	60	
Phase	1	
Insulation Rating (Class)	F	
Designed Temperature Rise (°C)	105	
Bearing (Quantity / Type)	1 / Sealed	
Number of Poles	2	
Voltage Regulator	Brushed / Electronic	
Motor Starting Capability (kVA)	41 (35% Voltage Dip)	
Total Harmonic Distortion (THD), NL to FL (%)	< 5	
Controls/Instrumentation		
Controller	GC-1032	_
Charger	Stand Alone	
Starting	AMF or 2-wire	
LED Digital Display	Yes	
Alternator Frequency	Yes	
Real Time Clock	Yes	
Engine Hour Counter	Yes	
Engine Runtime Scheduler	Yes	



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Low Oil Pressure Shutdown High Tomperature Shutdown Fault Code Display Other Features Battery Rack and Cables Fuel Solonid Valve Integral Vibration isolation Operation and Installation Manual(s) Enclosure Wind Speed Rating (mph) Accessories Maintenance Kit Oil Warmer Gateway Maintenance Kit Oil Warmer Gateway Gatewa	(2012년) : (1874년) : (1924년) :	
High Temperature Shutdown Fault Code Display Other Features Battery Rack and Cables Fuel Solenoid Valve Pees Oil Drain Extension Oil Drain Extension Oil Drain Extension Oil Drain Extension Operation and Installation Manual(s) Enclosure Mind Speed Rating (mph) 188 Accessories Meintenance Kit Oil Warmer 6840 Fuel Regulator Warmer 8845 Surge Protector 6840 Surge Protector 6840 Gateway 6520 UPS 6681 Infollub" Universal - Cellular Gateway Range Extender Cadeway Range Extender Limited Warranty: Warranty: Generator, International (Parts / Labor / Travel) — Years Universal - Call Labor / Travel) — Years Corrolling (Parts / Labor / Travel) — Years Corlillositions UL Mersanty-Challery Revenues Massachusetts Plumbers and Gasfitters Warranty-Cellular	Controls/Instrumentation	
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Battery Rack and Cables Yes Fuel Solenoid Valve Yes Integral Vibration Isolation Yes OII Drain Extension Yes OPeration and Installation Manual(s) Yes Enclosure Aluminum Wind Speed Rating (mph) 186 ACCessories Maintenance Kit 0872 OII O'II Warmer 6840 Fuel Regulator Warmer 6845 Surge Protector 6831 Gateway 8520 UPS 6581 Infoldub' Universal - Cellular 6574 Gateway Range Extender 6830 Limited Warranty! Warranty; Generator, Domestic & Canada (Parts / Labor / Travel) — Years / Hours / Travel) — Years / Labor / Travel) — Years / Certifications UL	High Temperature Shutdown	Yes
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Surge Protector Gateway Gateway Gateway Gateway Gateway Gateway Gateway Gateway Range Extender Gateway Range Extender	Oil Warmer	6840
Gateway UPS 6581 InfoHub" Universal - Cellular Gateway Range Extender Gateway Range Extender Elimited Warranty* Warranty: Generator, Domestic & Canada (Parts / Labor / Travel) — Years Warranty: Generator, International (Parts / Labor / Travel) — Years/Hours Warranty: Enclosure, Surface Rust and Corrosion (Parts / Labor / Travel) — Years Warranty: Enclosure, Rust Through (Parts / Labor / Travel) — Years UL Certifications UL Yes Massachusetts Plumbers and Gasfitters	Fuel Regulator Warmer	6845
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Gateway Range Extender Limited Warranty* Warranty: Generator, Domestic & Canada (Parts / Labor / Travel) – Years Warranty: Generator, International (Parts / Labor / Travel) – Years/Hours Warranty: Enclosure, Surface Rust and Corrosion (Parts / Labor / Travel) – Years Warranty: Enclosure, Rust Through (Parts / Labor / Travel) – Years UL Yes Massachusetts Plumbers and Gasfitters	UPS	6581
Warranty: Generator, Domestic & Canada (Parts / Labor / Travel) — Years Warranty: Generator, International (Parts / Labor / Travel) — Years/Hours Warranty: Enclosure, Surface Rust and Corrosion (Parts / Labor / Travel) — Years Warranty: Enclosure, Rust Through (Parts / Labor / Travel) — Years UL Yes Massachusetts Plumbers and Gasfitters	InfoHub™ Universal - Cellular	6574
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Corrosion (Parts / Labor / Travel) — Years Warranty: Enclosure, Rust Through (Parts / Labor / Travel) — Years Certifications UL Yes CUL Yes Massachusetts Plumbers and Gasfitters	Warranty: Generator, International (Parts / Labor / Travel) — Years/Hours	3 / 1000
(Parts / Labor / Travel) — Years Certifications UL Yes CUL Yes Massachusetts Plumbers and Gasfitters	Warranty: Enclosure, Surface Rust and Corrosion (Parts / Labor / Travel) — Years	1
UL Yes CUL Yes Massachusetts Plumbers and Gasfitters Vac	Warranty: Enclosure, Rust Through (Parts / Labor / Travel) — Years	3
cUL Yes Massachusetts Plumbers and Gasfitters Vac	Certifications	
Massachusetts Plumbers and Gasfitters Vac	UL	Yes
	cUL	Yes
	Massachusetts Plumbers and Gasfitters Listing	Yes



POWERPROTECT Standby Generators



RESIDENTIAL STANDBY GENERATORS SPECIFICATIONS

Weights & Dimensions	
Assembled Dimensions (Length x Width x Height) (in / mm)	46.5 x 26.8 x 28.4 / 1181 x 681 x 721
Assembled Weight (lbs / kg)	435 / 200
Packaged Dimensions (Length x Width x Height) (in / mm)	48.8 x 30.5 x 50.5 / 1240 x 775 x 1283
Packaged Weight (lbs / kg)	520 / 240
Outline and Pad Layout Drawing	80104088







