

12
kW

POWERPROTECT
Standby Generators



YOU.POWERED.

RESIDENTIAL

Standby Generators



SPECIFICATIONS

OVERVIEW	
Brand	Briggs & Stratton®
Series Name	Power Protect™
Model Name	PP12
Model Number	040666
Rated AC Voltage (Volts)	120 / 240
Frequency (Hz)	60
Generator Breaker (Amps)	60
Operating Ambient Temperature (°C / °F)	-28 - 40 / -20 - 104
Running Amperage, Standby (LP / NG) (Amps)	50 / 45
Running Watts, Standby (LP / NG) (kW)	12 ¹ / 10.8
Power Factor	1.0
Exercise Duration	16 seconds
Engine	
Engine Brand/Manufacturer	Vanguard®
Model Type	M38
Aspiration	Naturally Aspirated
Speed (RPM)	3600
Displacement (ci/cc)	38 / 623
Compression Ratio	8.3:1
Governor Type	Electronic

12

kW

POWERPROTECT

Standby Generators

RESIDENTIAL STANDBY GENERATORS SPECIFICATIONS



Engine	
Bore & Stroke (mm / in)	75.5 x 70.1 / 2.97 x 2.76
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 (%)	+/- 10
Air Filter Type	Dry
Low Oil Pressure Switch	Yes
Engine Oil Heater	Yes
Rated Temperature (°C / °F)	25 / 77
Sound Rating ²	
Low Idle Mode Sound dB(A)	64
Normal Operating Sound ² dB(A)	70
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	
Ignition System	Fixed 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/m ³ / BTU/ft ³)	NG: 34.3 / 904 LPV: 871 / 2338
Fuel Supply Pressure (mbar / in H2O)	NG: 9-17 / 3.5-7 LPV: 28-34 / 11-14

12

kW

POWERPROTECT
Standby Generators
RESIDENTIAL STANDBY GENERATORS SPECIFICATIONS



Fuel Consumption³	
No Load, NG (BTU/hr)	66,000
No Load, NG (ft ³ /hr)	66
Half Load, NG (BTU/hr)	117,000
Half Load, NG (ft ³ /hr)	117
Full Load, NG (BTU/hr)	172,000
Full Load, NG (ft ³ /hr)	172
No Load, LP (BTU/hr)	57,000
No Load, LP (ft ³ /hr)	23
No Load, LP (gal/hr)	0.70
Half Load, LP (BTU/hr)	155,000
Half Load, LP (ft ³ /hr)	62
Half Load, LP (gal/hr)	1.7
Full Load, LP (BTU/hr)	209,000
Full Load, LP (ft ³ /hr)	84
Full Load, LP (gal/hr)	2.3
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)	37 (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

12

kW

POWERPROTECT
Standby Generators
 RESIDENTIAL STANDBY GENERATORS SPECIFICATIONS



Controls/Instrumentation	
Engine Runtime Scheduler	Yes
Low Oil Pressure Shutdown	Yes
High Temperature Shutdown	Yes
Fault Code Display	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
Wind Speed Rating (mph)	175
Accessories	
Battery Warmer	6578
Maintenance Kit	6035
Fuel Regulator Warmer	6845
Surge Protector	6631
Gateway	6520
UPS	6581
InfoHub™ Universal - Cellular	6574
Gateway Range Extender	6839
Limited Warranty⁴	
Warranty: Generator, Domestic & Canada (Parts / Labor / Travel) – Years	6
Warranty: Generator, International (Parts / Labor / Travel) – Years/Hours	3 / 1000
Warranty: Enclosure, Surface Rust and Corrosion (Parts / Labor / Travel) – Years	1
Warranty: Enclosure, Rust Through (Parts / Labor / Travel) – Years	2
Certifications	
UL	Yes
cUL	Yes
Massachusetts Plumbers and Gasfitters Listing	Yes

12

kW

POWERPROTECT

Standby Generators

RESIDENTIAL STANDBY GENERATORS SPECIFICATIONS



Weights & Dimensions

Assembled Dimensions (Length x Width x Height) (in / mm)	28 x 24.5 x 37.2 / 712 x 622 x 944
Assembled Weight (lbs / kg)	361 / 164
Packaged Dimensions (Length x Width x Height) (in / mm)	39 x 33.5 x 45 / 991 x 851 x 1143
Packaged Weight (lbs / kg)	423 / 192
Outline and Pad Layout Drawing	80104459

