

Product Details and Certifications

Cross Reference RA Part Number: PN-125725

 Product: **1609-B600N**

Description: 1609 Next Generation UPS, Basic Model, 600 VA,
120V AC Input/Output



Representative Photo Only (actual product may vary based on configuration sections)

UNINTERRUPTIBLE POWER SUPPLY DATA

Bulletin Number	1609 Uninterruptible Power Supplies
Product Family	Basic
Volt-Amperes (VA)	600 VA
Volts	120V AC Input/Output
Short Circuit Protection	2.5:1

CERTIFICATIONS AND APPROVALS

UL
CE
IEC/EN
FCC

For UL Certifications Directory:

<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>



Product Selection Uninterruptible Power Supplies

Product Family ¹	Input/ Output Voltage [V]	Output Power [VA]	Cat. No.
1609-B Basic	120	600	1609-B600N
		1000	1609-B1000N
	230	600	1609-B600
		1000	1609-B1000E
1609-D Deluxe (full featured)	120	600	1609-D600N
		1000	1609-D1000N
		1500	1609-D1500N
	230	600	1609-D600E
		1000	1609-D1000E
		1500	1609-D1500E

¹ Requires two/three (1609-B/1609-D)12V batteries that must be ordered separately from the Accessories table below.

Specifications

Input

Capacity	VA	1609-B	1609-D		
	600	600VA (390 W)	600VA (390 W)		
1000	1000VA (390 W)	1000VA (650 W)			
1500	N/A	1500VA (980 W)			
Voltage Range 120VAC/230VAC	90...145V/184...264				
Current	1609-B	Input Voltage	600VA	1000VA	1500VA
		120V	5.4 A	8.9 A	N/A
	230V	2.8 A	4.7 A	N/A	
	1609-D	120V	5.5 A	8.8 A	13 A
230V		3.3 A	4.7 A	7.1A	
Capacity Frequency	50/60 Hz +/- 3 Hz				
PFC	None (load power factor is reflected in the input line)				

Output

Capacity	VA	1609-B	1609-D
	600	600VA (390 W)	600VA (390 W)
1000	1000VA (390 W)	1000VA (650 W)	
1500	N/A	1500VA (980 W)	

Accessories

Description	Cat. No.
Standard replacement battery 32...104 °F (0...40 °C)	1609-SBAT
High-temperature replacement battery 32...122 °F (0...50 °C)	1609-HBAT
External battery pack	1609-EXBAT
Surge protection module	1609-SPD
Replacement mounting bracket	1609-BRK



Product Selection Tools

Available online or for download, our tools help you access info while in the office or on the go.

www.rockwellautomation.com/support/selection.page



For more information on our complete family of power supply products, please visit:
<http://ab.rockwellautomation.com/Power-Supplies>



Technical Specifications — 1609-B, 120V		1609-B600N	1609-B1000N
Input	V nom.	120V	120V
	Capacity	600 VA (360 W)	1000 VA (600 W)
	Voltage Range, default	96...138V	
	Voltage Range, widest online	96...138V	
	Current nom.	5.4 A	8.9 A
	Capacity Frequency	50/60 Hz ± 3 Hz	50/60 Hz ± 3 Hz
	PFC	None	None
Output	V nom.	120V	
	Capacity	600 VA (360 W)	1000 VA (600 W)
Online	Output Voltage Range, default	96...138V	
	Output Voltage Range, widest online	96...138V	
	Transfer Point Accuracy	± 3%	
On Battery	V nom	120V (step wave)	
	Frequency	50/60 Hz ± 1 Hz	
	THD	47.5% (step wave)	47.6% (step wave)
Short Circuit Protection	Crest Factor	2.5:1	
Efficiency	On Battery (Typical with resistive load)	80% Typical with resistive load	
	Online - Typical with resistive load excluding AVR mode)	94% Typical with resistive load	
Protection	Surge	380 Joules (Total performance rated with 10*1000 μ s pulse)	
	Overload (Shutdown after 10 s)	> 110...130% - shutdown after 5 sec	
	Overload (Shutdown immediately)	130% shutdown immediately	
	Output Short: Online	Premises branch circuit over-current protection	
	Output Short: Battery	Shutdown	
	Thermal Protection	UPS inside temperature ≥ 70 °C	
Regulatory	Safety	UL1778, CSA C22.2 No. 107.3-05, EN/IEC62040-1	
	EMC	FCC & CE (Class A)	
	Markings	UL, cULus, FCC, CE, C-Tick	
Battery Pack	Run Time	≥5 min (at 25 °C, full load = 360W, PF = 0.6...0.75)	≥2 min (at 25 °C, full load = 600W, PF = 0.6...0.75)
	Type	Sealed Lead Acid Battery	
		12V/5Ah (for 0...40 °C: B.B. BP5...12)	
		12V/5.5 Ah (for 0...50 °C: B.B. HRL5.5...12)	
	Voltage	24V	
	Charger	Current limited, constant voltage float charger	
	Recharger Time	Less than 12 hrs to 90% capacity after discharge with full load	
Lifetime	2...3 years at 25 °C ambient temperature		
Environment	Temperature	Operating Standard Battery 0...+40 °C (+32...+104 °F) Hi-Temperature Battery 0...+50 °C (+32...+122 °F) Non-operating/Storage -15...+45 °C (+5...+113 °F)	
	Altitude	Operating 0...6600 feet (0... 2000 meters)	
	Humidity	Operating/Storage 5...95% RH (Non-condensing)	
	Heat Output	On Line, Full load: 107 BTU/hr On Line, Full load, Charging: 160 BTU per hour On Battery: Full Load: 1228 BTU per hour	On Line, Full load: 178 BTU/hr On Line, Full load, Charging: 231 BTU per hour On Battery: Full Load: 2047 BTU per hour
	Audible Noise	< 45 dBA @ Front Side 1 Meter	
Mechanical	Approximate Dimensions L*W*H In. (mm)	6.1 x 11 x 7.09 (155 x 300 x 180)	
	Approximate Weight lbs (kg)	14.5 (6.6)	14.7 (6.7)