

	Bulletin 1607 — ArmorPower™ On-Machine™ Power Supplies • IP67 and NEC Class 2 ratings • Vacuum encapsulation technology • Quick connectors • Smooth surface, suitable for washdown	Table of Contents Quick Guide..... this page Product Selection..... 8-3 Specifications..... 8-4 Approx. Dimensions . 8-5
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Standards Compliance

UL 508, UL 60950
CSA C22.2 No. 14
CSA C22.2 No. 60950-1
EN/IEC 60950

Certifications

UL Listed (File Number E56639 Guide No. NMTR)
cURus Recognized(File Number E168663 Guide Number QQQQ2/QQGQ8)
CE Marked

Type	Single Output			Dual Output
Bulletin	1607-XT50D1A	1607-XT100D1A	1607-XT200D1A	1607-XT200D2A
Output Power	50 W	91.2 W	192 W (288 with Bonus Power)	91.2 W per Output
Input Voltage (47...63 Hz)	100...240V AC, 100...353V DC			100...240V AC, 100...300V DC
Efficiency	>88%, 120V AC >89%, 230V AC			>82%, 120V AC >85%, 230V AC
Output Voltage	24V (+1%)			
Rated Output Current	2.1 A	3.8 A	8 A	3.8 A each Output
Operating Temperature Range (Tamb)	-25...+70 °C derate 2%/K, 50...70 °C	-25...+70 °C derate 2.5%/K, 50...70 °C	-25...+70 °C derate 2%/K, 50...70 °C	-25...+70 °C derate 2%/K, 50...70 °C
Non-Operating Temperature Range	-40...+85 °C			
Standards Compliance	UL 508, UL 60950, EN/IEC 60950,			
Certifications	UL Listed (File No. E56639, Guide No. NMTR), cURus Recognized (File No. E168663, Guide No. QQQQ2/QQGQ8), CE Marked			
Special Features	NEC Class 2			NEC Class 2
Product Selection	page 8-3			

Product Selection

Input Voltage	Output Power [W]	Output Voltage [V DC]	Output Current [A]	Inrush Current	Cat. No.
Single Output					
100...240V AC, 100...353V DC	50	24 (+1%)	2.0	<25 A	1607-XT50D1A
	91.2		3.8		1607-XT100D1A
100...240V AC, 100...353V DC	192 (288 with bonus power)	24 (+1%)	8	<25 A	1607-XT200D1A
Dual Output					
100...240V AC, 100...300V DC	91.2 per output	24 (+1%)	3.8 per output	<25 A	1607-XT200D2A

Accessories

Cordsets



Type	No. of Pins	Assembly Rating	Straight Female	Right Angle Female	Straight Male	Right Angle Male
			Cat. No.			
Input	3-Pin	600V, 13 A	889N-F3AFC-*F	889N-R3AFC-*F	—	—
Output	4-Pin	600V, 10 A	—	—	889N-M4AFC-*F	889N-E4AFC-*F

* Replace symbol with 6 (6 ft), 12 (12 ft), or 20 (20 ft) for standard cable lengths.

Patchcords



Type	No. of Pins	Assembly Rating	Straight Female Straight Male	Straight Female Right Angle Male	Right Angle Female Straight Male	Right Angle Female Right Angle Male
			Cat. No.			
Input	3-Pin	600V, 13 A	889N-F3AFNM-‡	889N-F3AFNE-‡	889N-R3AFNM-‡	889N-R3AFNE-‡
Output	4-Pin	600V, 10 A	889N-F4AFNM-‡	889N-F4AFNE-‡	889N-R4AFNM-‡	889N-R4AFNE-‡

‡ Replace symbol with 1 (1 m), 2 (2 m), 5 (5 m), or 10 (10 m) for standard cable lengths.

Terminal Chambers

Type	No. of Pins	Assembly Rating	Straight Female	Straight Male
			Cat. No.	
Input	3-Pin	250V, 12 A	871A-TS3-N1	—
Output	4-Pin	250V, 9 A	—	871A-TS4-NM1

T-Ports

Type	No. of Pins	Assembly Rating	Cat. No.
Input	3-Pin	300V 8 A	898N-33PB-N4KF
Output	4-Pin		898N-43PB-N4KF

Panel Mount Receptacles

Type	No. of Pins	Assembly Rating	Thread Size	Female	Male
				Cat. No.	
Input	3-Pin	250V, 13 A	1/2 in. - 14 NPT	888N-D3AF1- S F	—
Output	4-Pin	600V, 10 A		—	888N-M4AF1- S F
Description				Cat. No.	
Mounting nuts for 1/2 inch-14 NPT threaded receptacles are available in bags of 10 pieces				889A-U1NUT-10	

§ Replace symbol with 1 (1 ft) or 3 (3 ft) for standard cable lengths.

Input/Output Devices

Description	Cat. No.
Bulletin 1732 ArmorBlock and Bulletin 1732D/E ArmorWeldBlock I/O	
DeviceNet, Input Module, 16 Sink Inputs, DC Micro (M12) connector	1732D-IB16M12M12
DeviceNet, Input Module, 16 Sink Inputs, DC Micro (Mini) connector	1732D-IB16M12MINI
DeviceNet, Output Module, 16 Source Outputs, DC Micro (M12) connector	1732D-OB16M12M12
DeviceNet, Output Module, 16 Source Outputs, DC Micro (Mini) connector	1732D-OB16M12MINI
DeviceNet, Self-configuring Module, 16 point I/O, DC Micro (M12) connector	1732D-16CFGM12M12
DeviceNet, Self-configuring Module, 16 point I/O, DC Micro (Mini) connector	1732D-16CFGM12MN
DeviceNet I/O Module with Diagnostics	1732D-8X8M12D
DeviceNet, I/O Module with Diagnostics, 8 Sink Inputs (2 each on 4 connectors), 8 Source Outputs (2 each on 4 connectors), 1.4/8.0 A per Point/Module, DC Micro (M12) connector	1732D-8X81212HD
Bulletin 1738 ArmorPoint I/O	
ArmorPoint DeviceNet Adapter Module, Drop or Pass-through, with male and female M12 connectors	1738-ADN12
ArmorPoint DeviceNet 24V DC Adapter Module with subnet expansion	1738-ADNX
ArmorPoint DeviceNet Adapter Module, Drop or Pass-through, with male and female M18 connectors	1738-ADN18P
ArmorPoint DeviceNet Adapter Module, Drop only, with male M18 connector	1738-ADN18
ArmorPoint Redundant ControlNet Adapter Module	1738-ACNR
ArmorPoint Ethernet/IP 10/100 Mbps Adapter Module	1738-AENT
Bulletin 1792 ArmorBlock Maxum I/O	
ArmorBlock MaXum I/O Cable Base with Mini connectors, DeviceNet pass-through, and auxiliary power input connection	1792D-CB18P

Note: Review exact user and adapter power requirements for all digital products.

Note: The On-Machine power supplies are designed so that user and adapter power are wired in parallel. Also, the following conditions exist:

- Total power (user plus adapter power) equals the On-Machine power supply output channel.
- Both user and adapter power are +24V DC.
- User and adapter power are common and not isolated.

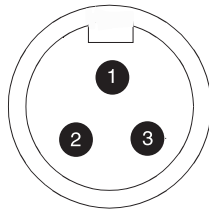
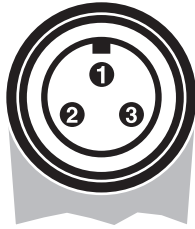
Specifications

	1607-XT50D1A	1607-XT100D1A	1607-XT200D1A	1607-XT200D2A
Output Power	50 W	91.2 W	192 W (288 W with bonus power)	91.2 W per output
Input Voltage (47...63 Hz)	100...240V AC, 100...353V DC		100...240V AC, 100...300V DC	
Operational Range	90...264V AC, 100...353V DC		90...264V AC, 100...300V DC	
Hold-up Time	50 ms			
Rated Input Current	1.0 A (115V AC), 0.5 A (230V AC)	2.0 A (115V AC), 1.0 A (230V AC)	2.4 A (115V AC), 1.2 A (230V AC)	2.2 A (115V AC), 1.1 A (230V AC)
Inrush Current	<25 A			
Efficiency	>88%, 120V AC >89%, 230V AC		>82%, 120V AC >85%, 230V AC	
Output Voltage	24V (+1%)			
Rated Output Current	2.0 A	3.8 A	8 A	3.8 A per output
Ripple Voltage	<240 mV _{PP} bandwidth, 1 MHz			
Noise	<480 mV _{PP} bandwidth, 20 MHz			
Overcurrent Protection	electronic current limited to 2.2...2.7 A	electronic current limited to 3.8...4.1 A	electronic current limited to 12.1...15.6 A (8.4...10.4 A after 4 s bonus power times out)	electronic current limited to 3.8...4.1 A
AC Power On LED Indication for Output 1	yes			
Operating Temperature Range (T _{amb})	-25...+70 °C derate 2.5%/K, 50...70 °C		-25...+60 °C derate 2%/K, 50...60 °C	
Non-Operating Temperature Range	-40...+85 °C			
Humidity	up to 100% with condensation			
MTBF ⚡	>500 000 hours			
Dimensions (W x H x D)	140 x 36 x 85 mm (5.51 x 1.42 x 3.35 in.)		187 x 74 x 122 mm (7.36 x 2.91 x 4.80 in.)	
Weight	750 g (1.65 lb)		3040 g (6.70 lb)	
Ingress Protection	IP67, EN 60529			
Certifications/Standards	CE, UL 508 (UL LISTED), UL 60950 (cURus), Safety standards = IEC/EN 60950, EN 60529 CE EN 60950; cULus Listed, UL508, cURus Recognized UL60950/CSA C22.2, No. 60950-1			
Special Features	NEC Class 2		—	NEC Class 2

* MTBF determined by Siemens norm SN 29500 at full load current and 40 °C.

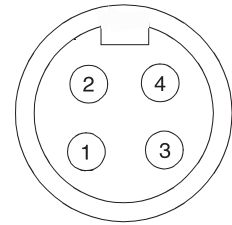
Pinouts

Input



Pin	Connection
1	NC
2	L
3	N

Output

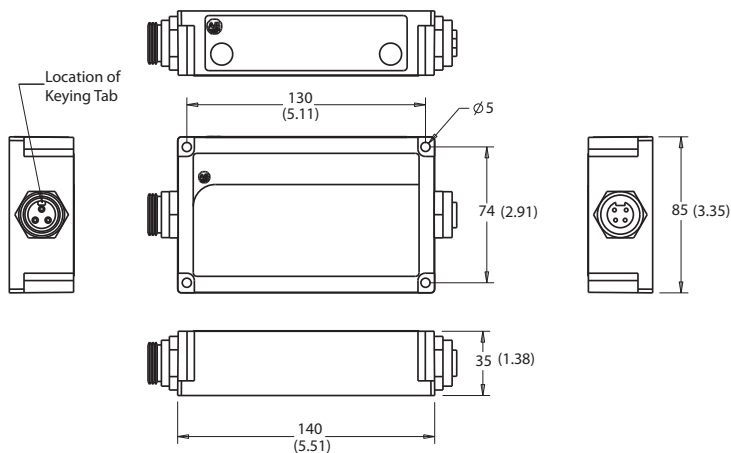


Pin	Connection
1	+
2	+
3	-
4	-

Approximate Dimensions

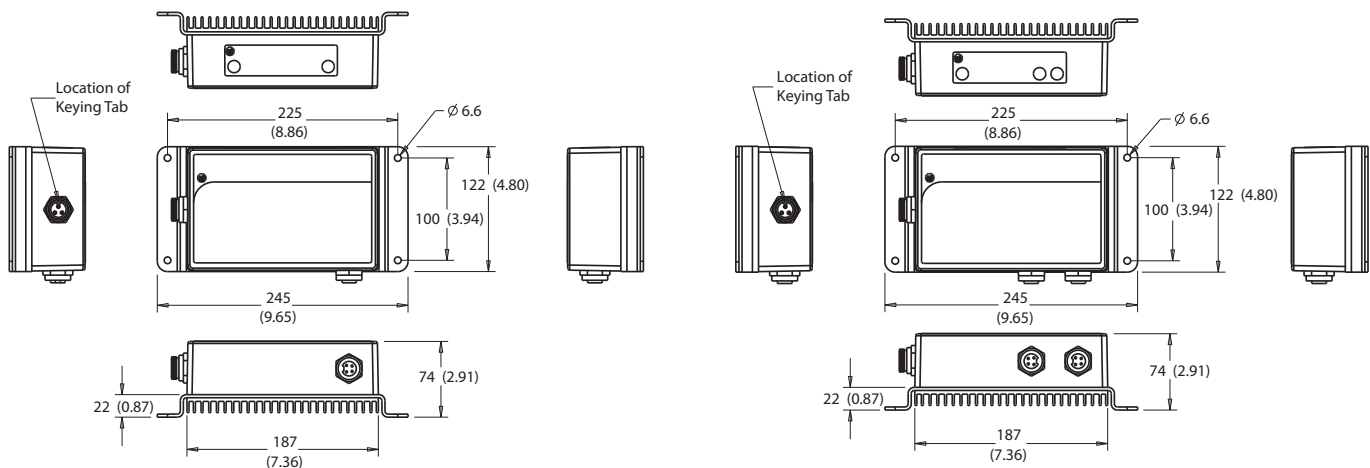
Dimensions in millimeters (inches). Dimensions are not intended to be used for manufacturing purposes.

1607-XT50D1A and 1607-XT100D1A



1607-XT200D1A

1607-XT200D2A



Allen-Bradley

www.ab.com/catalogs Preferred availability cat. nos. are **bold**.

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