



BALLUFF

BAE0009

BAE PS-XA-3Y-24-200-007

VAC
1-0-1W

BALLUFF
BAE00ET
BAE PS-XA-1W-24-000-004

HEARTBEAT™

Output
24V/3.5A

4 + 0VDC
1 + 0VDC
1 + +24VDC
2 + -24VDC

Stress Level
Lifetime
Load Level

Input
0.6 - 240 VAC
1.6 - 3.5 A

BALLUFF
BAE00EN
BAE PS-XA-1W-24-038-001

HEARTBEAT™

Output
24V/3.5A

4 + 0VDC
1 + 0VDC
1 + +24VDC
2 + -24VDC

Stress Level
Lifetime
Load Level

Input
0.6 - 240 VAC
0.7 - 1.6 A

Power Supply

Contents

Industrial automation is becoming more demanding than ever, and the complexity of tasks is forever increasing. Efficient operation of equipment and machines demands reliable power sources. Balluff power supplies: the powerful solution for fault-free operation of your system.

Take advantage of the special benefits of Balluff power supplies:

- Full product line – choose just what you need
- Short circuit and overload protection in industrial environments
- High availability of all devices
- Unlimited, precise power for increased demands
- Long life for reliable operation
- Worldwide approvals for use anywhere

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Power Supply

IP67 machine mount power supplies

A Power Supply You Can Trust

Intelligent power supplies with HeartBeat technology give reliable feedback on the real time and long term status of the supply. Built with the roughest applications in mind, these power supplies provide many great advantages:

- Highly energy efficient (>93% efficiency)
- Electrically durable (power boost 150% for 4 seconds)
- Long lasting (minimum service life of 15 years)
- Vibration and shock resistant
- IP67 - Outside the cabinet rated

7/8" industry standard power connectors

IP67 Fully potted housing

HEARTBEAT™ visual feedback



HEARTBEAT™



Load level
Reversible in short term

Load level indicates the current load on the device. The display indicates the load without delay.



Stress level
Reversible in medium term

Stress level indicates the physical and thermal loads. A change in the load status delays the "pulse" of the device slightly.



Lifetime
Irreversible in long term

Lifetime indicates the remaining useful life of the device and is based on the combination of all loads.

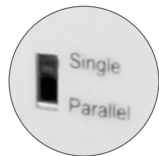


Network Auxiliary Power

This fully potted power supply can be installed virtually anywhere in an industrial manufacturing environment and provide efficient and reliable power. Easy to see indicators communicate the status of the power supply for simple preventative maintenance plan. With greater than 93% efficiency you can improve plant performance and decrease waste power consumption.

Power Supply

Reliable control power



Parallel/Single mode
When more power is needed, multiple units can be connected in parallel mode (most models)



Ready output
Informs control system that power supply is operational (most models)

Adjustable output
Adjust voltage output to compensate for losses in wiring and distributed components



Status indication
LED for DC power ON and DC power LO indication (most models)

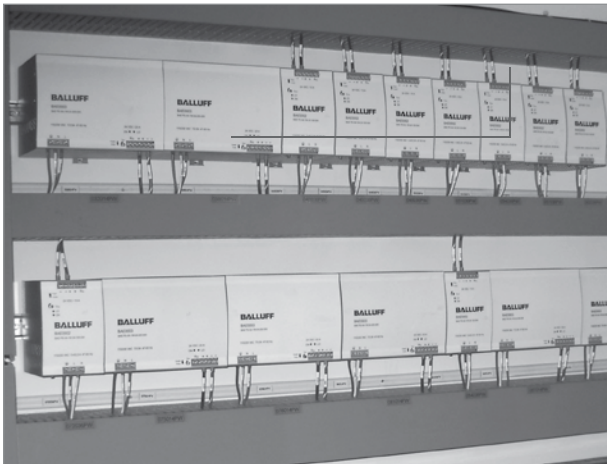


Rugged DIN rail mount

CE, UL/cUL, & TUV approvals

IP20-rated metal housing (most models)

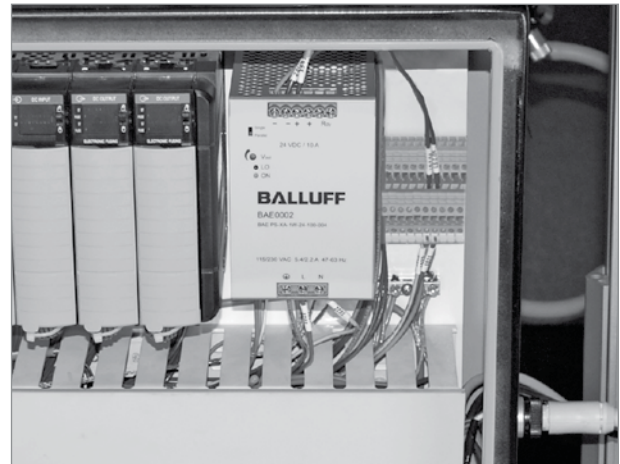
Finger-safe terminals
No additional guarding is necessary



Control and Network Power

These power supplies were designed by Balluff with control products in mind, so you can be sure they will integrate perfectly with your control suite.

The PS Series of ultra reliable power supplies come in a wide range of 24 V DC models with single or 3-phase inputs. With current ranges from 0.75 A (18 W) to 40 A (960 W), there is a size for most applications. But if more power is needed, connect multiple power supplies together (parallel mode) for additive current capacity.



Seamless Installation

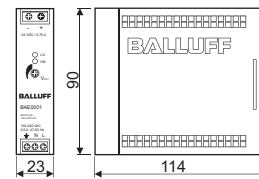
Reliable power has never been this easy to install. It starts with convenient DIN mounting with Balluff's heavy-duty, built-in mounting system. Screw terminals are oriented to allow AC power to enter from the bottom and DC power to exit from the top. Finger-safe terminals require no additional guarding.

Power Supply

IP20 standard
Single-phase
12 V, 24 V output



Output values		1.5 A @ 12 V DC 0.75 A @ 24 V DC
Output wattage		18 W
Input voltage		100...240 V AC
12 VDC	Ordering code	BAE0036
	Part number	BAE PS-XA-1W-12-015-001
24 VDC	Ordering code	BAE0001
	Part number	BAE PS-XA-1W-24-007-001
Ripple and noise		50 mV
Short Circuit Protection		Yes
Switching frequency		> 100 kHz
Ambient temperature		-25 °C to +71 °C
Degree of protection per IEC 60529		IP 20
Cooling		Air free convection
Housing material		Plastic
Approvals		CE, UL/cUL, TUV, Class 2



Power Supply

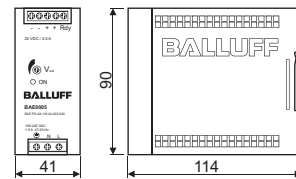
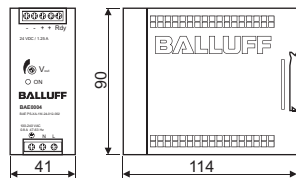
IP20 standard

Single-phase

12 V, 24 V output



2.5 A @ 12 V DC 1.25 A @ 24 V DC 30 W 100...240 V AC	5.0 A @ 12 V DC 2.5 A @ 24 V DC 60 W 100...240 V AC
BAE0039 BAE PS-XA-1W-12-025-002	BAE003E BAE PS-XA-1W-12-050-002
BAE0004 BAE PS-XA-1W-24-012-002	BAE0005 BAE PS-XA-1W-24-025-002
50 mV Yes > 100 kHz -25 °C to +71 °C IP 20 Air free convection Plastic CE, UL/cUL, TUV, Class 2	50 mV Yes > 100 kHz -25 °C to +71 °C IP 20 Air free convection Plastic CE, UL/cUL, TUV, Class 2



Power Supply

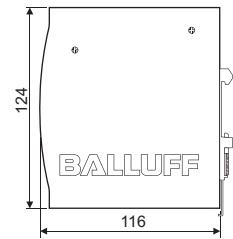
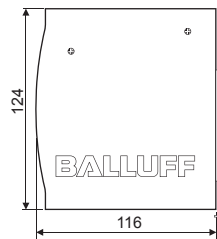
IP20 standard

Single-phase

12 V, 24 V, 48 V output



Output values		3.8 A @ 24 V DC (SELV)	10 A @12 V DC 5 A @ 24 V DC 2.5 A @ 48 V DC
Output wattage		91.20 W	120 W
Input voltage		115/230 V AC (Auto-Select)	115/230 V AC (auto select)
12 V	Ordering code		BAE003H
	Part number		BAE PS-XA-1W-12-100-003
24 V	Ordering code	BAE003J	BAE0006
	Part number	BAE PS-XA-1W-24-038-003	BAE PS-XA-1W-24-050-003
48 V	Ordering code		BAE003K
	Part number		BAE PS-XA-1W-48-025-003
Ripple and noise		50 mV	50 mV
Short Circuit Protection		Yes	Yes
Switching frequency		> 55 kHz (typically)	> 80 kHz
Ambient temperature		-25...+71 °C	-25 °C to +71 °C
Degree of protection per IEC 60529		IP 20	IP 20
Cooling		Air free convection	Air free convection
Housing material		Metal	Metal
Approvals		CE, UL/cUL, TUV, Class 2, ODVA certified	CE, UL/cUL, TUV



Power Supply

IP20 standard
Single-phase
24 V, 48 V output



10 A @ 24 V DC
5 A @ 48 V DC

240 W
115/230 V AC (auto select)

BAE0002

BAE PS-XA-1W-24-100-004

BAE003L

BAE PS-XA-1W-48-050-004

100 mV
Yes
> 80 kHz
-25 °C to +71 °C
IP 20
Air free convection
Metal
CE, UL/cUL, TUV

20 A @ 24 V DC
10 A @ 48 V DC

480 W
115/230 V AC (auto select)

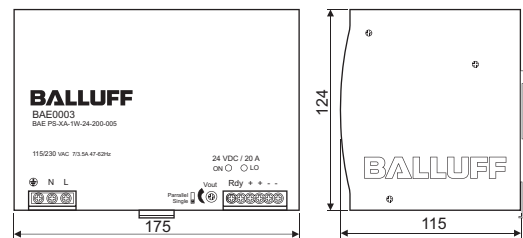
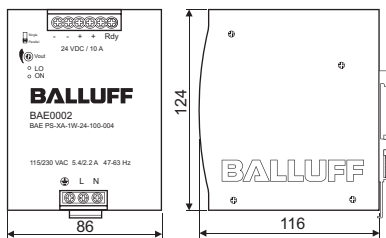
BAE0003

BAE PS-XA-1W-24-200-005

BAE003M

BAE PS-XA-1W-48-100-005

100 mV
Yes
> 100 kHz
-25 °C to +71 °C
IP 20
Air free convection
Metal
CE, UL/cUL, TUV

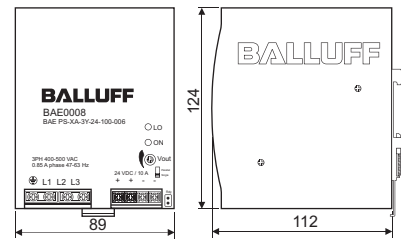
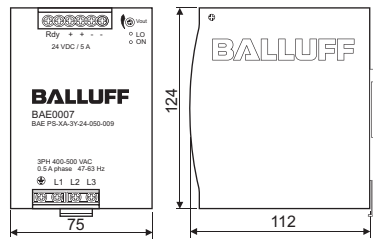


Power Supply

IP20 standard
Three-phase
24 V output



Output values	5 A @ 24 V DC	10 A @ 24 V DC
Output wattage	120 W	240 W
Input voltage	3x 340...575 V AC	3x 340...575 V AC
Ordering code	BAE0007	BAE0008
Part number	BAE PS-XA-3Y-24-050-009	BAE PS-XA-3Y-24-100-006
Ripple and noise	100 mV	100 mV
Short Circuit Protection	Yes	Yes
Switching frequency	> 100 kHz	> 100 kHz
Ambient temperature	-25 °C to +71 °C	-25 °C to +71 °C
Degree of protection per IEC 60529	IP 20	IP 20
Cooling	Air free convection	Air free convection
Housing material	Metal	Metal
Approvals	CE, UL/cUL, TUV	CE, UL/cUL, TUV



Power Supply

IP20 standard
Three-phase
24 V output



20 A @ 24 V DC

480 W
3x 340...575 V AC

BAE0009

BAE PS-XA-3Y-24-200-007

100 mV

Yes

> 100 kHz

-25 °C to +71 °C

IP 20

Air free convection

Metal

CE, UL/cUL, TUV

40 A @ 24 V DC

960 W
3x340...575 V AC

BAE003R

BAE PS-XA-3Y-24-400-010

80 mV

Yes

> 100 kHz

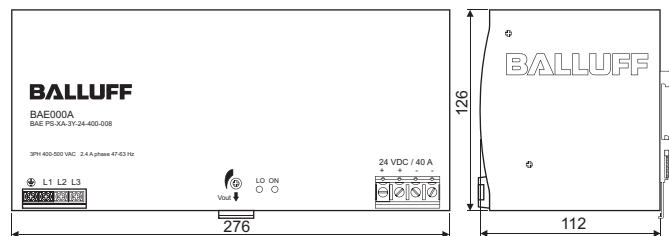
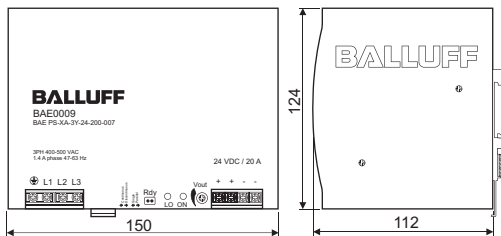
-25 °C to +71 °C

IP 20

Air free convection

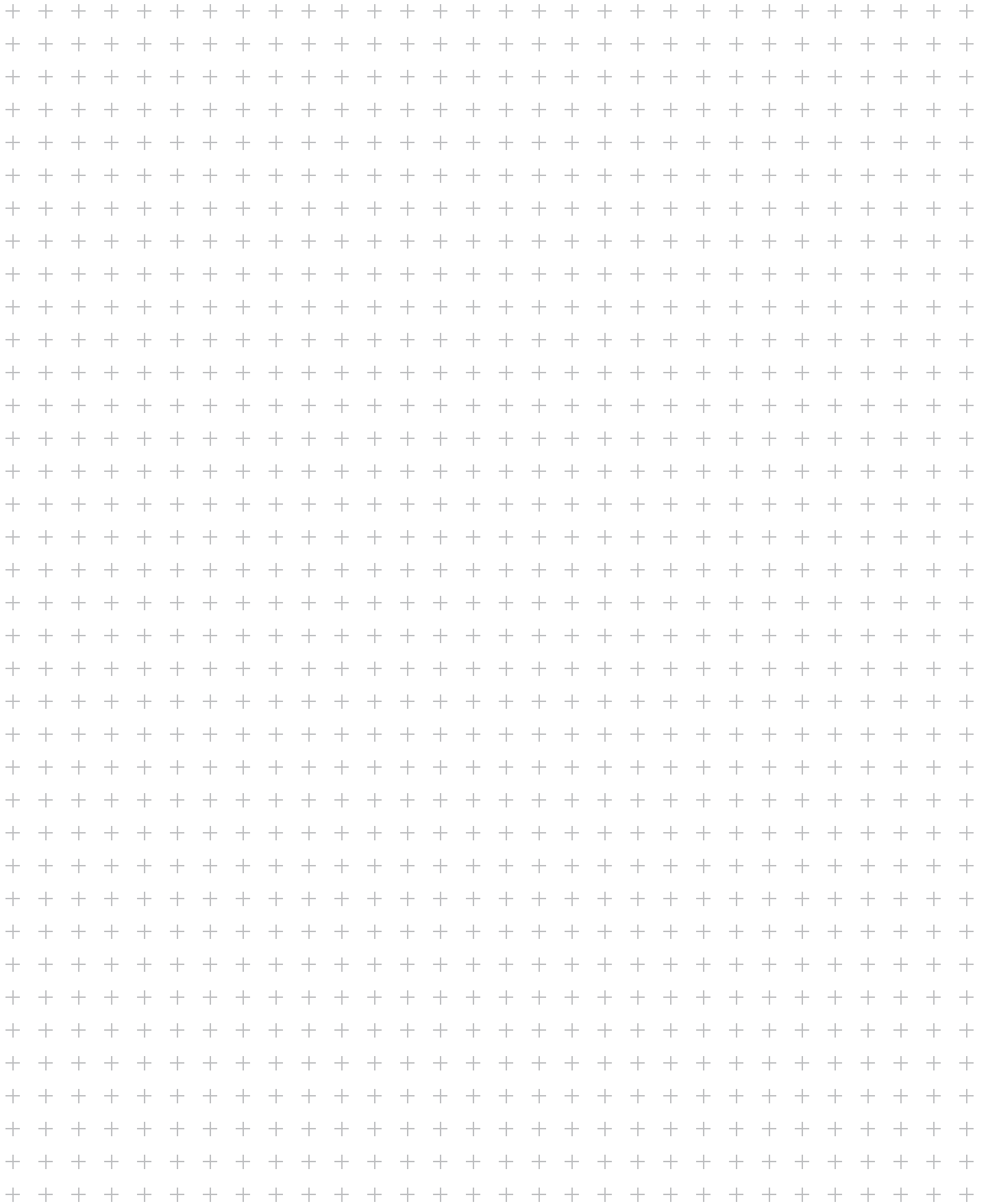
Metal

CE, UL/cUL, TUV



Power Supply

Intelligent power supplies



Power Supply

Intelligent power supplies
Machine mount IP67



Machine Mount IP67 Intelligent Power Supplies

Degree of protection per IEC 60529		IP 67	IP 67
Output current		3.8 A	8 A
Output power		100 W	200 W
Output voltage		24 V DC (SELV)	24 V DC (SELV)
Input voltage		100...240 V AC Single phase	100...240 V AC Single phase
Isolated output (4-pin), DeviceNet Aux, SELV & GND	Ordering code	BAE00EN	
	Part number	BAE PS-XA-1W-24-038-601	
Isolated output (4-pin), EtherNet IP Aux, SELV	Ordering code	BAE00FW*	BAE00ET
	Part number	BAE PS-XA-1W-24-038-607	BAE PS-XA-1W-24-080-604
Grounded output (4-pin) EtherNet IP Aux, PELV	Ordering code	BAE00EP	BAE00FY*
	Part number	BAE PS-XA-1W-24-038-602	BAE PS-XA-1W-24-080-606
Isolated output (5-pin), PROFI & CC-Link Aux, SELV & GND	Ordering code	BAE00ER	BAE00FL*
	Part number	BAE PS-XA-1W-24-038-603	BAE PS-XA-1W-24-080-605
Efficiency	High efficiency > 93 %		
MTBF	> 800,000 h		
Input	3-pin (male)		
Output	4-pin (female), 2 circuits Optional: 2 connectors for output voltage, each with 2 circuits 5-pin (female) for DN Network Power		
Operating temperature	-25...+70 °C		
Storage temperature range	-40...+80 °C		
Mounting	Panel, wall and field mounting		
Housing material	Metal, fully enclosed		
Service life	Almost 15 years		
Warranty	2 years		

*Consult factory for availability

