

UPA Power Supplies/Transformers



The Bosch UPA Series of Power Supplies is designed specifically for the continual use demands of professional surveillance products. While UPA models are used primarily with security cameras, their small size and high energy efficiency rating also make them ideal for powering a wide range of other low power security products, including many Allegiant® system accessories and control devices.

The UPA 60 Hz models are designed specifically to meet the strict efficiency standards and laws being adopted in the United States. These efficient power supplies meet or exceed the International Energy Efficiency Level IV requirements.

System overview

Functions

Certifications and approvals

Electromagnetic Compatibility (EMC)	Complies with FCC Part 15, ICES-003, and CE regulations
Product Safety	Complies with CE regulations, UL, CSA, EN, and IEC standards

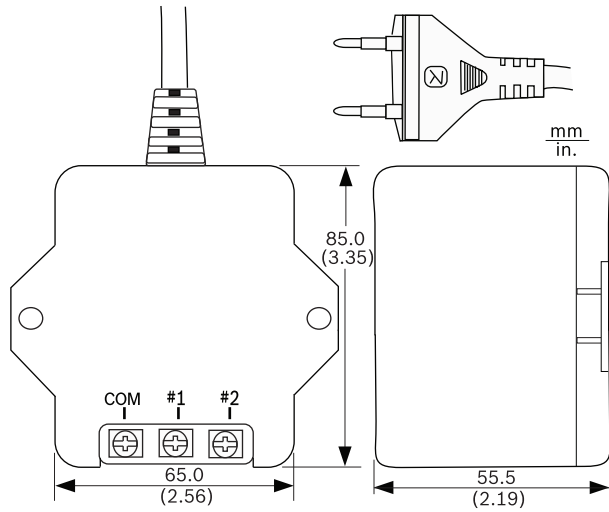
- ▶ Provides efficient, constant power for CCD and MegaPixel cameras, keyboards and other low power usage products
- ▶ Models are exceptionally energy efficient
- ▶ Meet or exceed International Energy Efficiency Level IV requirements
- ▶ 24 VAC and 12 VDC secondary output models
- ▶ Screw terminals for ease of installation on some models
- ▶ 120 VAC and 230 VAC power source models
- ▶ Safety agency certified

Energy Efficiency	Meets Energy Efficiency Level IV	
Region	Regulatory compliance/quality marks	
Europe	CE	UPA-1220-50 DoC
	CE	UPA-2420-50
	CE	UPA-2450-50

Technical specifications

Order number	Identifying features	
	Rated Input	Rated Output
UPA-2420-50	220-240 V, 50 Hz	24 V, 20 VA
UPA-2450-60	120 VAC, 60 Hz	24 VAC, 60 Hz, 50 VA
UPA-2450-50	230 VAC, 50 Hz	24 VAC, 50 VA
UPA-1220-60	100-240 VAC, 50/60 Hz	12 VDC, 1A, regulated
UPA-1220-50	100-240 VAC, 50/60 Hz	12 VDC, 1A, regulated

UPA-2420-50



UPA-2420-50 Power Supply

Electrical

Rated Input	220-240 V, 50 Hz
Rated Output	24 V, 20 VA

Mechanical

Input Connectors	2-prong, European Europlug standard (4 mm / 19 mm)
Output Connectors	Three (3) screw terminals
Construction/Finish	Black plastic case
Dimensions (W x D x H)	65.0 x 55.5 x 85.0 mm (2.56 x 2.19 x 3.35 in.)
Weight	0.78 kg (1.72 lb)
Recommended Use	Medium power box cameras

Environmental

Operating Temperature	-10°C to 40°C (14°F to 104°F)
Storage Temperature	-30°C to 80°C (-22°F to 176°F)
Humidity	30% to 85% relative

Represented by:

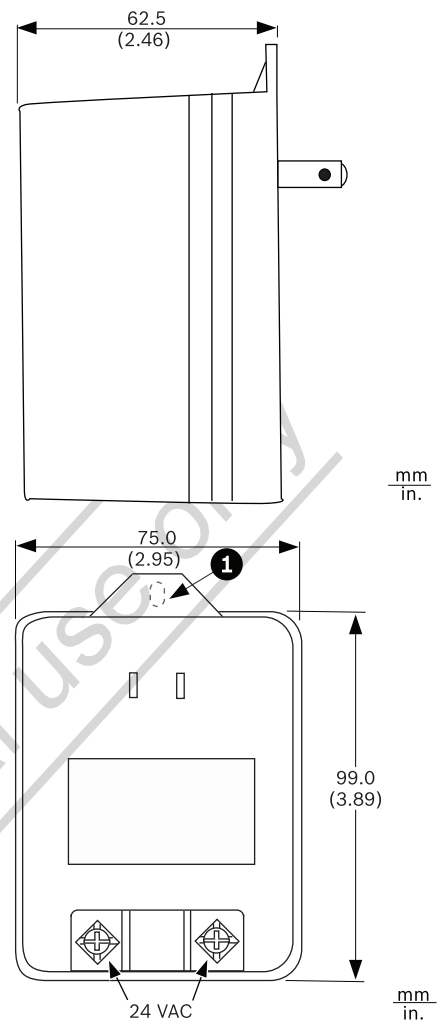
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 www.boschsecurity.asia

UPA-2450-60



UPA-2450-60 Power Supply

1	Legacy mounting tab
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Electrical

Rated Input	120 VAC, 60 Hz
Rated Output	24 VAC, 50 VA

Mechanical

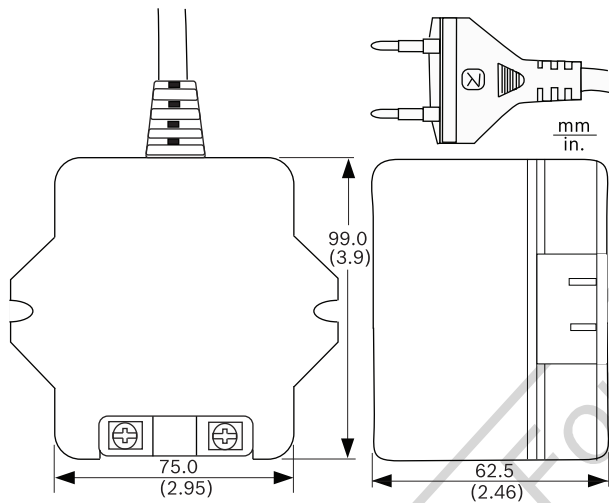
Input Connectors	2-prong, North American standard (non-polarized)
Output Connectors	Two (2) screw terminals

Construction/Finish	Black plastic case
Dimensions (W x D x H)	75.0 x 62.5 x 99.0 mm (2.95 x 2.46 x 3.89 in.)
Weight	0.84 kg (1.86 lb)
Recommended Use	Bosch KBE Series pre-package cameras

Environmental

Operating Temperature	-10°C to 40°C (14°F to 104°F)
Storage Temperature	-30°C to 80°C (-22°F to 176°F)
Humidity	30% to 85% relative

UPA-2450-50



UPA-2450-50 Power Supply

Electrical

Rated Input	230 VAC, 50 Hz
Rated Output	24 VAC, 50 VA

Mechanical

Input Connectors	2-prong, European Europlug standard (4 mm / 19 mm)
Output Connectors	Two (2) screw terminals

Represented by:

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Bosch Security Systems B.V.
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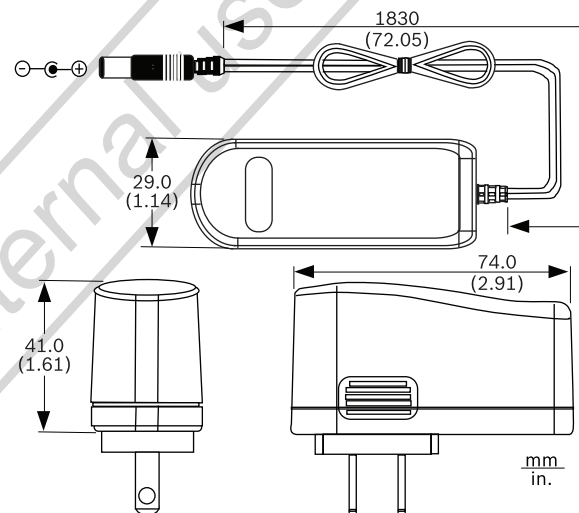
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Construction/Finish	Black plastic case
Dimensions (W x D x H)	75 x 62.5 x 99.0 mm (2.95 x 2.46 x 3.9 in.)
Weight	1.16 kg (2.56 lb)
Recommended Use	Bosch KBE Series pre-packaged camera

Environmental

Operating Temperature	-10°C to 40°C (14°F to 104°F)
Storage Temperature	-30°C to 75°C (-22°F to 167°F)
Humidity	30% to 85% relative

UPA-1220-60



UPA-1220-60 Power Supply

Electrical

Rated Input	100-240 VAC, 50/60 Hz
Rated Output	12 VDC, 1.0 A, regulated

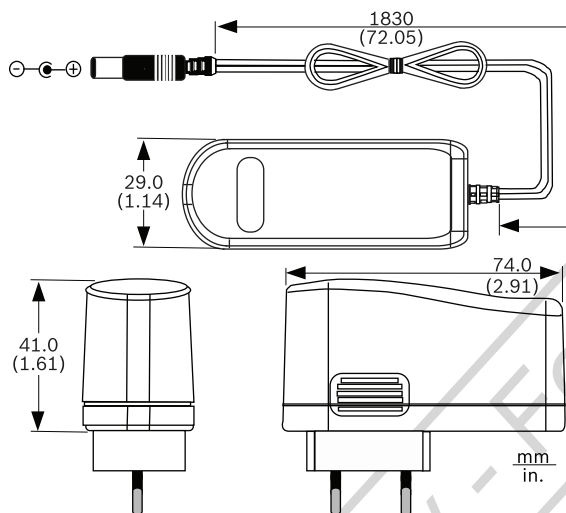
Mechanical

Input Connectors	2-prong, North American standard (non-polarized)
Output Connectors	2.1 x 5.5 x 10.0 mm plug

	(0.8 x 0.22 x 0.4 in.)
Construction/Finish	Black plastic case
Dimensions (W x D x H)	74.0 x 29.0 x 41.0 mm (2.91 x 1.14 x 1.61 in.)
Weight	0.12 kg (0.26 lb)
Recommended Use	Bosch megapixel cameras

Environmental

Operating Temperature	-10°C to 40°C (14°F to 104°F)
Storage Temperature	-30°C to 80°C (-22°F to 176°F)
Humidity	30% to 85% relative

UPA-1220-50

UPA-1220-50 Power Supply

Electrical

Rated Input	100-240 VAC, 50/60 Hz
Rated Output	12 VDC, 1.0 A, regulated

Mechanical

Input Connectors	2-prong, European Europlug standard (4 mm / 19 mm)
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Environmental

Operating Temperature	-10°C to 40°C (14°F to 104°F)
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Ordering information**UPA-2450-60 PSU, 120VAC 60Hz, 24VAC 50VA out**

Indoor power supply for camera. 120 VAC, 60 Hz In; 24 VAC, 50 VA Out

Order number **UPA-2450-60 | F.01U.076.154**

UPA-1220-60 Power supply, 120VAC 60Hz,12VDC 1A out

Power supply for camera. 100-240 VAC, 50/60 Hz In; 12 VDC, 1 A Out; regulated.

Input connector: 2-prong, North American standard (non-polarized).

Order number **UPA-1220-60 | F.01U.076.155**

UPA-1220-50 Power supply, 220VAC 50Hz, 12VDC 1A out

Power supply for camera. 110-240 VAC, 50/60 Hz In; 12 VDC, 1 A Out; regulated.

Input connector: 2-prong, European Europlug standard (4 mm / 19 mm).

Order number **UPA-1220-50 | F.01U.076.158**

UPA-2430-60 PSU, 120VAC,60Hz, 24VAC, 30VA out

Power supply unit for cameras.

Order number **UPA-2430-60 | F.01U.075.079**

UPA-2450-50 PSU, 220VAC 50Hz, 24VAC 50VA out

Indoor power supply for camera. 220 VAC, 50 Hz in; 24 VAC, 50 VA out

Order number **UPA-2450-50 | F.01U.076.157**

UPA-2420-50 PSU, 220VAC 50Hz, 24VAC 20VA out

Power supply unit for cameras.

Order number **UPA-2420-50 | F.01U.076.160**