RK5100PS-5U Rack Mount

CHASSIS FOR ENDURA® SYSTEM MODULES

Product Features

- Mounts in Standard 19-inch (48.26 cm) Rack
- Hot-Swappable Internal Power Supply When Used with Optional EPS5000-300
- Thermal Management Included
- Optional Redundant External Power Supply
- Optional Blank Modules
- Integrates with Pelco Fiber Modules Using RK5001-1UEXP
- 5 Rack Units (RU) High

OPTIONAL EPS5000-300

The **RK5100PS-5U** chassis has an internal power supply and can contain up to 12 Endura system modules. The modules and the internal power supply with thermal management are 5 RU high. The internal power supply powers all modules and can be replaced easily if it fails. The Pelco badge on the front of the power supply illuminates blue when the power supply is running. The chassis is designed to mount into an EIA-standard, 19-inch (48.26 cm) rack.

The **RK5100PS-5U** chassis includes a fan and baffle for cooling the modules. This unique feature adds extended reliability while only utilizing 1 RU of rack space.

The internal power supply has a relay output connector that is directly wired to the power and is a normally closed (N.C.) dry contact. If the power supply fails, the relay opens and the blue Pelco badge will turn off. The internal power supply includes a spare fuse.

Optional blank modules (RK5001B-4U) can be inserted into empty module slots to create a clean, full-rack look.

The EPS5000-300 is an optional redundant external power supply that can power up to two fully populated **RK5100PS-5U** chassis. The EPS5000-300 consists of dual 300 W power supplies that slide into a hot-swapping tray system and can be mounted into an EIA-standard, 19-inch (48.26 cm) rack.

The EPS5000-300 has a relay output connector that is directly wired to the power and is a N.C. dry contact. If the power supply fails, the relay opens and the blue Pelco badge will turn off. Each power supply includes a spare fuse.

The EPS5000-300 comes with two overmolded cables that connect to the **RK5100PS-5U** chassis.

Endura distributed, network-based products are available only to certified dealers/integrators. Please contact your local sales representative for details on certification applications and requirements. Additional information on Endura products and certifications may be found at http://www.pelco.com/endura.

MODELS

RK5100PS-5U	Rack mount chassis for up to 12 Endura modules; internal power supply

RK5100PS-5U

Electrical

Input Voltage	100-240 VAC, 50-60 Hz, autoranging
Output Voltage	12 VDC
Power Consumption	Operating Maximum (noninclusive of components within the rack)
100 VAC	46.8 W, 159 BTU/H
115 VAC	46.4 W, 158 BTU/H
220 VAC	46 W, 157 BTU/H

Note: BTU/H is based on 20% internal inefficiency rating; 80% of power output is consumed by NET5301 units.

Fuse	4 A/250 V
Redundant Capability	Yes with optional EPS5000-300 power supply

Mechanical

Number of Slots	12 for modules and 2 for power supply
Module Orientation	Vertical
Rack Units	5 (includes thermal management)
Construction	Aluminum
Finish	Black

Environmental

Operating Temperature	41° to 95° F (5° to 35° C) at air intake (front of unit)
Storage Temperature	-40° to 149°F (-40° to 65°C)
Operating Humidity	20% to 80% noncondensing
Maximum Humidity	Gradient 10% per hour
Operating Altitude	-50 ft to 10,000 ft (-16 m to 3,048 m)
Operating Vibration	0.25 G at 3 Hz to 200 Hz at a sweep rate of 0.5 octaves/minute

Note: The temperature at the unit air intake can be significantly higher than room temperature. Temperature is affected by rack configuration, floor layout, air conditioning strategy, and other issues. To prevent performance failure and unit damage, make sure the temperature at the unit is continuously within the operating temperature range.

General

Dimensions	15.50" D x 17.70" W x 8.72" H (39.37 x 44.96 x 22.15 cm)
Mounting	Fits 19-inch (48.26 cm), EIA-standard rack
Unit Weight	12.7 lb (5.76 kg), with power supply 37.8 lb (17.15 kg), fully populated
Shipping Weight	44.0 lb (19.93 kg)

EPS5000-300

Electrical

Input Voltage	100-240 VAC
Output Voltage	12 VDC
Power Consumption	Operating maximum (noninclusive of components within the rack)
100 VAC	103 W, 352 BTU/H
115 VAC	104 W, 355 BTU/H
220 VAC	109 W, 372 BTU/H

Note: BTU/H is based on 20% internal inefficiency rating; 80% of power output is consumed by NET5301 units.

Fuse	4 A/250 V

Mechanical

Rack Units	1
Construction	Aluminum
Finish	Black

Environmental

Operating Temperature	41° to 95° F (5° to 35° C) at air intake (front of unit)
Storage Temperature	-40° to 149°F (-40° to 65°C)
Operating Humidity	20% to 80% noncondensing
Maximum Humidity	Gradient 10% per hour
Operating Altitude	-50 ft to 10,000 ft (-16 m to 3,048 m)
Operating Vibration	0.25 G at 3 Hz to 200 Hz at a sweep rate of 0.5 octaves/minute

Note: The temperature at the unit air intake can be significantly higher than room temperature. Temperature is affected by rack configuration, floor layout, air conditioning strategy, and other issues. To prevent performance failure and unit damage, make sure the temperature at the unit is continuously within the operating temperature range.

General

Dimensions	1.73" D x 17.40" W x 12.00" H (4.39 x 44.20 x 30.48 cm)
Mounting	Fits 19-inch (48.26 cm), EIA-standard rack
Unit Weight	16.5 lb (7.48 kg)
Shipping Weight	19.0 lb (8.62 kg)

CERTIFICATIONS

- CE, Class A
- FCC, Class A
- UL/cUL Listed
- C-Tick
- S Mark for Argentina
- GOST

SUPPLIED ACCESSORIES

RK5100PS-5U	1 power supply 2 power cords (1 USA standard and 1 European standard) 1 UK standard power cord (250 VAC, 3 prongs, molded connector, 6 ft or 1.8 m) 4 screws and washers for rack mounting

OPTIONAL ACCESSORIES

RK5001B-4U	Single-width blank module
EPS5000-300	External rack mountable power supply; dual 300 W power supplies
RK5001-1UEXP	Adapter kit that allows a 3 RU single-width, double-width or triple-width fiber module to be used in an RK5100PS-5U rack mount chassis