

EthernetConnect™ and IP/Analog Fiber Accessories

POWER SUPPLIES, RACK CHASSIS WITH INTERNAL POWER SUPPLY

Product Offerings

- USRACK/EURACK: Rack Chassis with Internal 9 VDC, 6.5 A Power Supply, 14 Slots
- FXTPS: 9 VDC, 2 A, Power Supply Provides Power to Stand-Alone Units
- ECPS-12VDC-0.5A: 12 VDC, 0.5 A, Power Supply Provides Power to Stand-Alone Units
- ECPS-12VDC-3A: 12 VDC, 3 A, Power Supply Provides Power to Stand-Alone Units
- FXTPS-48V: 48 VDC, 1.36 A, Power Supply Provides Power Over Ethernet (PoE) Power to Stand-Alone Units
- ECPS-48VDC-5A: 48 VDC, 5 A, Power Supply, DIN Rail Mount, Ideally Suited for PoE Applications
- ECPS-48VDC-10A: 48 VDC, 10 A, Power Supply, DIN Rail Mount, Ideally Suited for PoE Applications



USRACK/EURACK



FXTPS/ECPS-12VDC-3A



ECPS-12VDC-0.5A

The **Rack Chassis with Internal Power Supply**, 9 VDC, 12 VDC, and 48 VDC **Power Supply Products** are accessories that support the IP/analog fiber and EthernetConnect™ products. These accessories provide a range of options to provide power to fiber applications, power over copper (PoC) applications, and PoE applications.

The 14-slot **Rack Chassis** allows for module installation in a chassis that is rack mountable. The chassis contains an internal 9 VDC, 6.5 A power supply that provides power directly to all modules installed in the chassis; no external power supply is required. The power supply provides current limiting at each slot for short circuit protection.

The 9 VDC, 12 VDC, and 48 VDC **Power Supply Products** provide excellent voltage and current alternatives for powering stand-alone IP/analog fiber and Ethernet modules. The 48 VDC, 5 A and 10 A power supplies are ideally suited for PoE applications.



FXTPS-48V



ECPS-48VDC-5A



ECPS-48VDC-10A

RECOMMENDED POWER SUPPLIES AND HARDWARE

9 VDC POWER SUPPLY PRODUCT FEATURES

USRACK/EURACK RACK CHASSIS

- Output Voltage: 9 VDC
- Output Current: 6.5 A
- Input Voltage: 90 to 264 VAC
- Provides Fourteen 1-Inch Slots
- Rack Mount and Power for 14 Modules
- Automatic Current Limiting at Each Module Slot (Not at the Power Supply Output)
- Voltage Transient Protection on all Power and Signal Input/Output Lines Provides Unconditional Protection
- All Modules Installed in the Chassis are Hot-Swappable
- 3 RU High
- IEC Cord Included: US, UK, EU, or AUS
- Optional RACK1B Single-Width Blank Filler Panel Covers the Front of an Empty Chassis Slot

FEXTPS

- Output Voltage: 9 VDC
- Output Current: 2 A
- Input Voltage: 100 to 240 VAC
- Broad Input Voltage Range for EU and US Application
- Frequency Range of 50 to 60 Hz for EU and US Application
- Changeable Input Voltage Pin Head; US Pin Head Standard
- Pin Heads Also Included for Europe, Australia, and UK

12 VDC POWER SUPPLY PRODUCT FEATURES

ECPS-12VDC-0.5A

- Output Voltage: 12 VDC
- Output Current: 0.5 A
- Input Voltage: 100 to 240 VAC
- Broad Input Voltage Range for EU and US Application
- Frequency Range of 50 to 60 Hz for EU and US Application
- Changeable Input Voltage Pin Head; US Pin Head Standard
- Pin Heads Also Included for Europe, Australia, and UK

ECPS-12VDC-3A

- Output Voltage: 12 VDC
- Output Current: 3 A
- Input Voltage: 100 to 240 VAC
- Broad Input Voltage Range for EU and US Application
- Frequency Range of 50 to 60 Hz for EU and US Application
- Changeable Input Voltage Pin Head; US Pin Head Standard
- Pin Heads Also Included for Europe, Australia, and UK

48 VDC POWER SUPPLY PRODUCT FEATURES

FEXTPS-48V

- Output Voltage: 48 VDC
- Output Current: 1.36 A
- Input Voltage: 100 to 240 VAC
- Broad Input Voltage Range for EU and US Application
- Frequency Range of 50 to 60 Hz for US and EU Application
- For Use on Standalone PoE Models
- IEC Cord Included: US, UK, EU, or AUS

ECPS-48VDC-5A

- Output Voltage: 48 VDC
- Output Current: 5 A
- AC Input Voltage: 85 to 264 VAC, 47 to 63 Hz
- DC Input Voltage: 120 to 375 VDC
- Output Overvoltage Protection: <57 VDC
- Output Overcurrent Protection: >150% of Rated Load Current
- Output Short Circuit Protection: Hiccup Mode, Non-Latching (Auto-Recovery When the Fault is Removed)
- Power Factor: >0.96 at 115 VAC, >90 at 230 VAC
- High Operating Efficiency: >90% at 115 VAC, >92% at 230 VAC
- Small Package for Limited Space Installations
- Mounts on 35 mm (1.4 in) DIN Rail in Accordance with EN60715
- Natural Convection Cooling: No Fans Required

ECPS-48VDC-10A

- Output Voltage: 48 VDC
- Output Current: 10 A
- AC Input Voltage: 85 to 264 VAC, 47 to 63 Hz
- DC Input Voltage: 120 to 375 VDC
- Output Overvoltage Protection: <57 VDC
- Output Overcurrent Protection: >150% of Rated Load Current
- Output Short Circuit Protection: Hiccup Mode, Non-Latching (Auto-Recovery When the Fault is Removed)
- Power Factor: >0.96 at 115 VAC, >90 at 230 VAC
- High Operating Efficiency: >91% at 115 VAC, >93% at 230 VAC
- Small Package for Limited Space Installations
- Mounts on 35 mm (1.4 in) DIN Rail in Accordance with EN60715
- Natural Convection Cooling: No Fans Required

TECHNICAL SPECIFICATIONS

9 VDC Rack Power Supply Products

MODELS

USRACK	9 VDC, 14-slot chassis, internal power supply with US AC power cord, 19-inch, 3 RU rack mount
EURACK	9 VDC, 14-slot chassis, internal power supply with UK, EU, or AUS AC power cord, 19-inch, 3 RU rack mount

ELECTRICAL

Input Voltage	90 to 264 VAC at 70 W maximum
Output Voltage	9 VDC
Accuracy	± 5% at 6.5 A at 75°C
Output Current	6.5 A
Fusing	1.25 A slow-blow (rack power supply) plug-in modules individually electronically fused; each power supply unit is individually fused.
MTBF	>100,000 hours
Power Indicator	Red LED
AC Line Cord	Detachable, IEC-connected; US, UK, EU, or AUS power cords available

MECHANICAL

Dimensions	48.2 x 19 x 17.5 cm (19.0" D x 7.5" W x 6.9" H)
Rack Slots	14 slots available, 1-inch slots
Unit Weight	2.27 kg (5 lb)
Shipping Weight	<3 kg (6.61 lb)

GENERAL

Operating Temp	−40° to 75°C (−40° to 167°F)
Storage Temp	−40° to 85°C (−40° to 185°F)
Relative Humidity	20% to 80%, noncondensing
Heat Generation	240 BTU

CERTIFICATIONS/RATINGS

- CE, Class A
- FCC, Class A
- UL/cUL Listed
- C-Tick
- Meets NEMA TS-1/TS-2 Standards and the Caltrans Specification for Traffic Signal Control Equipment

RECOMMENDED ACCESSORY

RACK1B	Single-width blank filler panel covers the front of an empty chassis slot
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BLANK FILLER PANEL

9 VDC Power Supply Product

MODEL

FEXTPS	9 VDC switching power supply
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ELECTRICAL

Input Voltage Range	100 to 240 VAC
Input Frequency Range	50 to 60 Hz
Input Power Consumption	<0.5 W (at no load)
Input Current	600 mA RMS maximum
Output Voltage	9 VDC
Output Load Range	2 A maximum

MECHANICAL

Input Pins	Includes input voltage pin heads for US/North America, Europe, Australia, and UK Note: Refer to the Product Features section for pictorial descriptions.
Dimensions	7.4 x 4.4 x 3.5 cm (2.9" D x 1.7" W x 1.4" H)
Unit Weight	0.25 kg (0.55 lb)
Shipping Weight	<0.45 kg (1 lb)

GENERAL

Operation Temperature	0° to 40°C (32° to 104°F)
Storage Temperature	−10° to 70°C (14° to 158°F)
Relative Humidity	20% to 80%, noncondensing

CERTIFICATIONS/RATINGS

- CE, Class A
- FCC, Class A
- UL/cUL Listed
- C-Tick

12 VDC Power Supply Products

MODELS

ECPS-12VDC-0.5A	12 VDC, 0.5 A switching power supply
ECPS-12VDC-3A	12 VDC, 3 A switching power supply

ELECTRICAL

Input Voltage Range	100 to 240 VAC
Input Frequency Range	50 to 60 Hz
Input Power Consumption	<0.3 W (at no load)
Input Current	
ECPS-12VDC-0.5A	0.3 A RMS maximum
ECPS-12VDC-3A	1 A RMS maximum
Output Voltage	12 VDC
Output Load Range	
ECPS-12VDC-0.5A	0.5 A maximum
ECPS-12VDC-3A	3 A maximum

MECHANICAL

Input Pins	Includes input pin heads for US/North America, Europe, Australia, and UK Note: Refer to the Product Features section for pictorial descriptions.
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Dimensions	
ECPS-12VDC-0.5A	6.4 x 4.1 x 3.0 cm (2.5" D x 1.6" W x 1.2" H)
ECPS-12VDC-3A	7.4 x 4.4 x 3.5 cm (2.9" D x 1.7" W x 1.4" H)

Unit Weight	
ECPS-12VDC-0.5A	0.25 kg (0.55 lb)
ECPS-12VDC-3A	0.25 kg (0.55 lb)

Shipping Weight	
ECPS-12VDC-0.5A	<0.45 kg (1 lb)
ECPS-12VDC-3A	<0.45 kg (1 lb)

GENERAL

Operation Temperature	0° to 40°C (32° to 104°F)
Storage Temperature	-10° to 70°C (-4° to 158°F)
Relative Humidity	20% to 80%, noncondensing

CERTIFICATIONS/RATINGS

- CE, Class A
- FCC, Class A
- UL/cUL Listed
- C-Tick

48 VDC Power Supply Products

MODEL

FEXTPS-48V	48 VDC switching power supply
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ELECTRICAL

Input Voltage Range	100 to 240 VAC
Input Frequency Range	50 to 60 Hz
Input Power Consumption	<0.5 W (at no load)
Input Current	1.4 A RMS maximum
Output Voltage	48 VDC
Output Load Range	1.36 A maximum

MECHANICAL

Dimensions	11.5 x 5.3 x 3.8 cm (4.5" D x 2.1" W x 1.5" H)
Unit Weight	0.32 kg (0.70 lb)
Shipping Weight	<0.68 kg (1.50 lb)

GENERAL

Operation Temperature	0° to 40°C (32° to 104°F)
Storage Temperature	-20° to 80°C (-4° to 176°F)
Relative Humidity	20% to 80%, noncondensing

CERTIFICATIONS/RATINGS

- CE, Class A
- FCC, Class A
- UL/cUL Listed
- C-Tick

48 VDC 5 A Power Supply Products

MODEL

ECPS-48VDC-5A 48 VDC switching power supply, 240 W

ELECTRICAL

Output

Output Voltage Trim Range	
Typical VDC Minimum	48 VDC
Typical VDC Maximum	56 VDC
Typical Current	5 A
Efficiency	>90% at 115 VAC, >92% at 230 VAC
Line Regulation	<0.5% typical
Load Regulation	<1% typical
Output Voltage Tolerance	±1% (initial set point tolerance from factory)
Hold-Up Time	>20 ms at 115 VAC and 230 VAC (100% load)
Output Overvoltage Protection	<57 VDC
Output Short Circuit Protection	Hiccup mode, non-latching (auto-recovery when the fault is removed)
Rated Overload Protection	>150% of rated load current, hiccup mode, non-latching (auto-recovery)

Input

Rated Input Voltage Range	
AC	85 to 264 VAC
DC	120 to 375 VDC
Rated Input Current at Vinut	<u>115 VAC</u> <u>230 VAC</u>
	2.5 A 1.3 A
Frequency Range	47 to 63 Hz
Maximum Inrush Current	<u>115 VAC</u> <u>230 VAC</u>
	<35 A <35 A

MECHANICAL

Cooling	Natural convection: requires 5.0 cm (2.0 in) free space above and below and lateral distance of 2.0 cm (0.79 in) from other units to ensure adequate cooling
Cable Mount	
Screw Terminal Blocks	12 to 20 AWG flexible or solid cable
Dimensions	12.1 x 8.5 x 12.4 cm (4.8" D x 3.4" W x 4.9" H)
Unit Weight	0.96 kg (2.12 lb)
Shipping Weight	<1.75 kg (3.86 lb)

GENERAL

Operating Temperature	-25° to 80°C (-13° to 176°F)
Power Derating	
Vertical Mounting	>50°C, derate power by 2.5%/°C
Horizontal Mounting	>40°C, derate power by 2.5%/°C
Storage Temperature	-25° to 85°C (-13° to 185°F)
Relative Humidity	<95%, noncondensing

CERTIFICATIONS/RATINGS

- CE, Class B
- FCC, Class B
- UL/cUL Recognized

48 VDC 10 A Power Supply Products

MODEL

ECPS-48VDC-10A 48 VDC switching power supply, 480 W

ELECTRICAL

Output

Output Voltage Trim Range	
Typical VDC Minimum	48 VDC
Typical VDC Maximum	56 VDC
Typical Current	10 A
Efficiency	>91% at 115 VAC, >93% at 230 VAC
Line Regulation	<0.5% typical
Load Regulation	<1% typical
Output Voltage Tolerance	±1% (initial set point tolerance from factory)
Hold-Up Time	>20 ms at 115 VAC and 230 VAC (100% load)
Output Overvoltage Protection	<57 VDC
Output Short Circuit Protection	Hiccup mode, non-latching (auto-recovery when the fault is removed)
Rated Overload Protection	>150% of rated load current, hiccup mode, non-latching (auto-recovery)

Input

Rated Input Voltage Range	
AC	85 to 264 VAC
DC	120 to 375 VDC
Rated Input Current at Input	<u>115 VAC</u> <u>230 VAC</u>
	5 A 3.0 A
Frequency Range	47 to 63 Hz
Maximum Inrush Current	<u>115 VAC</u> <u>230 VAC</u>
	<35 A <35 A

MECHANICAL

Cooling	Natural convection: requires 5.0 cm (2.0 in) free space above and below and lateral distance of 2.0 cm (0.79 in) from other units to ensure adequate cooling
Cable Mount	
Screw Terminal Blocks	12 to 20 AWG flexible or solid cable
Dimensions	12.1 x 14.4 x 11.9 cm (4.8" D x 5.7" W x 4.7" H)
Unit Weight	1.37 kg (3.02 lb)
Shipping Weight	<2.20 kg (4.85 lb)

GENERAL

Operating Temperature	-25° to 75°C (-13° to 167°F)
Power Derating	
Vertical Mounting Only	>50°C, derate power by 2.5%/°C >70°C, derate power by 5%/°C
Storage Temperature	-25° to 85°C (-13° to 185°F)
Relative Humidity	<95%, noncondensing

CERTIFICATIONS/RATINGS

- CE, Class B
- FCC, Class B
- UL/cUL Recognized

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