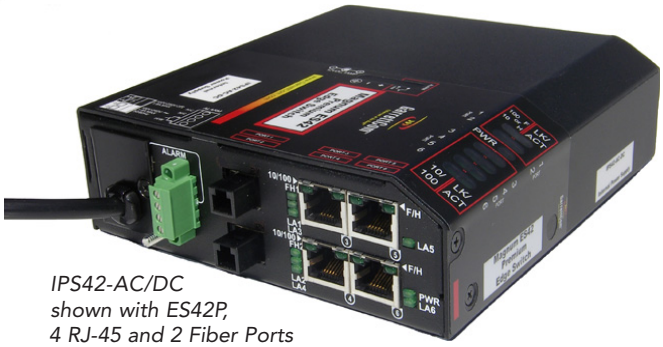
Magnum IPS42

Internal Power Supplies for Edge Switch Family

Features

- For AC/DC models, 100 to 250V range, 2KV surge protected
- For 125VDC, 48VDC and 24VDC models, dual-source power input for high availability
- For AC models, world-wide AC power input with standard IEC 320 recessed male power plug
- For all models, UL Listed and tested for Safety.
- IEC 61850 rated for EMC and EMI, rugged metal case, IEC 60068 tested for extreme temperature



IPS42-AC/DC shown with ES42P, 4 RJ-45 and 2 Fiber Ports

Any of hundreds of ES42H and P Edge Switch models may be combined with any of five models of the Magnum IPS42 Internal Power Supply unit to yield a hardened Edge Switch unit configured with big-switch power input. These products are ready for reliable service in the harshest environments. For example, choose an AC/DC model of the IPS42 for 110VDC unit with IEC 61850 rating and maximum (4KV) surge suppression to complement any ES42 Series Edge Switch unit, ready for duty for power utility substations . . . the only such high-voltage AC/DC Ethernet unit (patent pending) on the market that is UL Listed for user safety. Or, use the AC model IPS42 along with a 48VDC PES42 model for a Power over Ethernet (PoE) Edge Switch unit that plugs into your AC power source. Also offered are high-availability IPS42 units with DC dual-source input at 125V, or 48V, or 24V.

ES42 Series models cover the broadest range of Ethernet edge connectivity. There are Hardened and Premium ratings for temperature extremes, even outdoors. There are all fiber port flavors at 100Mb, Dual-Homing for edge redundancy, Link-Loss-Learn for ring resilience, and PoE Power Source support for low cost installation of modern PoE industrial devices. All have relay alarm for input power-loss, IP52 rating, and are convection cooled (using the case as a heat sink) for use in dirty and dusty industrial environments.

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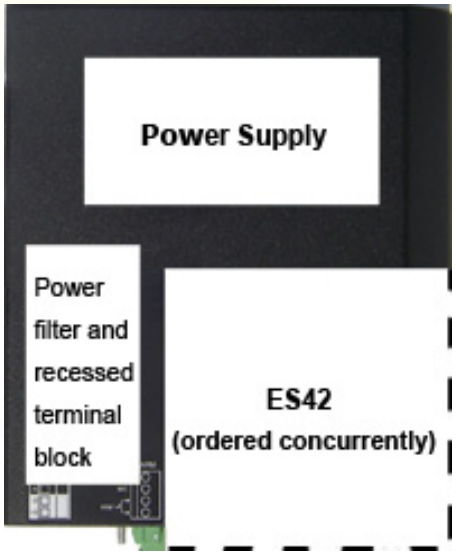
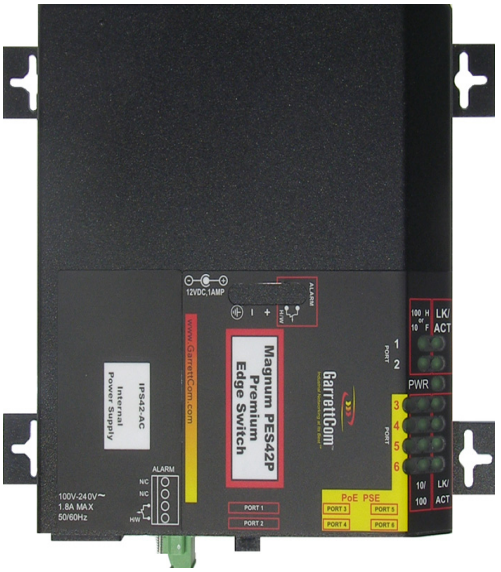


Functional View

IPS42 for DIN Rail



IPS42 for Panel-Mount

Specifications

OPERATING ENVIRONMENT:
IEC 60068 "Type Test" exceeds -40° to 185°F (-40° to 85°C)
Storage: -60° to 212°F (-50°to 100°C)
Relative humidity: 5% to 95% (non-condensing)
Altitude: -200 to 13000ft (-60 to 4000m)
UL 60950 "Component Parts" rating: -40° to 140°F (-40° to 60°C)
Conformal coating (humidity protection) optional: Request quote

RELAY CONTACT FOR ALARMS: Form C, one NC indicating internal power

AC/DC POWER SUPPLY (Model IPS42-AC/DC):
Power Input: DC: 100 - 250 VDC, or
AC: 100 - 250 VAC, 47 to 63 Hz, auto ranging
Surge Rating: IEC 61000-4-3, Class 3/ 4 (2kV for DC)
Std. Recessed Terminal Block: "-, GND, +", UL-Listed
Power Consumption: 10 watts typical for a 4+2-port fiber model

DC for DUAL SOURCE MODELS of IPS42
The Magnum IPS42 DualSRC models have Dual DC power input, for continuity of operation when either of the DC input sources is interrupted. Available for 125VDC, -48VDC, or 24VDC.

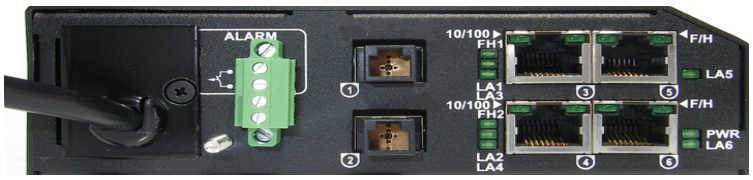
DC POWER SUPPLIES for Dual Source DC:
125VDC: Input 100 to 250VDC nominal
48VDC: Input, 44 to -57VDC
24VDC: Input, 20 to 36VDC
Surge Rating: IEC 61000-4-3, Class 3/ 4 (2kV for DC)
Std. Terminal Block for DualSRC: A: "-, GND, +", B: "-, GND, +",
Power Consumption: 10 watts typical for a 4+2-port fiber model

AC POWER SUPPLY (Model IPS42-AC):
AC Power Connector: standard IEC 320, male, recessed
Power Input: 100 - 250 VAC, 47 to 63 Hz, auto ranging
Power Consumption: 10 watts typical for a 4+2-port fiber model

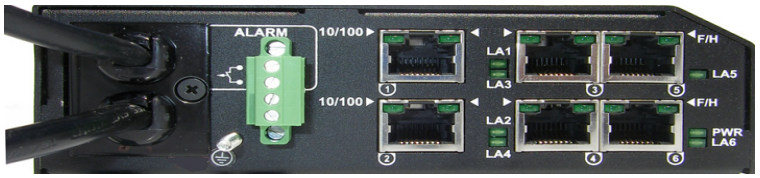
MECHANICAL:
Enclosure: High-strength metal (aluminum), case used as a heat sink
Panel mounting: metal mounting brackets (4) included
DIN-Rail mounting: order Model # DIN-Rail-MC2, optional
Enclosure Ingress Protection rating: IP52, protects against dust particles and liquids per IEC 60529, and NEMA-3, 3X
Cooling Method: Convection case used is a heat sink, designed for vertical mounting, no fans.
Dimensions: 6 in H x 5.5 in W x 1.7 in D (15.2cm H x14.0cm W x 4.3cm D)
Weight: 1.5 est lbs. (.68 kg)

AGENCY APPROVALS AND STANDARDS COMPLIANCE:
UL Listed (UL60950), cUL, CE, Emissions meet FCC Part 15, Class A.
IEC 61850 EMC and Operating Conditions Class C for Power Substations
IEEE 1613 Env. Standard for Electric Power Substations
NEBS L3 and ETSI compliant including vibration, shock, altitude
NEMA TS-2 and TEES for traffic control equipment

WARRANTY:
Three years Made in USA



AC/DC Model with Power Cord installed



Dual-Source Model with Power Cords installed

AC Power Model

AC/DC Power Model, Recessed Terminal Block, (patent pending) shown prior to power cord connection.


Safety Cover


Strain Relief Grommet

To change the power cord, unplug incoming power to unit. Then, unscrew metal safety cover to expose terminal block, and unscrew incoming power wires from terminal block. Next, remove strain relief grommet and replace existing power cord with your new power cord. Finally, reinstall strain relief grommet, and reattach wires to terminal block and screw on metal safety cover.

Ordering Information

Magnum IPS42-AC/DC Internal Power Supply chassis for use with any ES42H or ES42P Series Edge Switch. Requires simultaneous ordering of an ES42 (without external power supply) as a separate line item. Rated 100 to 250 Volts, AC or DC. Power input via recessed terminal block, UL Listed and surge protected.

Magnum IPS42-125VDC-DualSRC Internal Power Supply chassis for use with any ES42H or ES42P Series Edge Switch. Requires simultaneous ordering of an ES42 (without external power supply) as a separate line item. Rated 100 to 250 Volts DC, Dual Source. Power input via recessed terminal block, UL Listed and surge protected.

Magnum IPS42-48VDC-DualSRC Internal Power Supply chassis for use with any ES42H or ES42P Series Edge Switch. Requires simultaneous ordering of an ES42 (without external power supply) as a separate line item. Rated 44 to 57 Volts DC, Dual Source. Power input via recessed terminal block, UL Listed and surge protected.

Magnum IPS42-24VDC-DualSRC Internal Power Supply chassis for use with any non-PoE ES42H or ES42P Series Edge Switch. Requires simultaneous ordering of an ES42 (without external power supply) as a separate line item. Rated 20 to 36 Volts DC, Dual Source. Power input via recessed terminal block, UL Listed and surge protected.

Magnum IPS42-AC Internal Power Supply chassis for use with any ES42H or ES42P Series Edge Switch. Requires simultaneous ordering of an ES42 (without external power supply) as a separate line item. Standard worldwide AC power input via standard IEC 320 recessed male connector, UL Listed and surge protected.

DIN-RAIL-MC2 DIN-Rail mounting hardware for one IPS42

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