

D1800

High Power/PoE Plus Midspan Single-Port Injector



- 35 Watts continuous output
- Compliant to and exceeds IEEE 802.3af and IEEE 802.3at High Power/PoE Plus Power-over-Ethernet standards
- Supports data links at 10Mbps, 100Mbps or 1000Mbps (*gigabit compatible*)
- Data and power carried on the same Ethernet cable
- Extended temperature operating range

For more information call:

FOR MORE INFORMATION CALL:
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DYCON
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Power-over-Ethernet Solutions

35W continuous output, Mid-Span, single-point injectors

Dycon Power Solutions D1800 Series units are single port High Power/PoE Plus Mid-Span injectors for powering IP End devices. The single port injector adds up to 35W continuously at ~48 VDC to unused (non-data) wires in a standard Category 5, 5e or 6 Ethernet cable. The D1800 delivers both data and power over a single standard Ethernet cable to PoE-enabled End Device designed to receive both power and data through its RJ45 connector. The second RJ45 passes data only through to the Ethernet switch. Maximum cable distance from Ethernet switch to end IP Device is 100m (328ft). The unit has LED indicators which show the unit's AC power status, and indication when an IP End Device is connected and drawing power and a fault indication should any End Device is connected but causing a fault such as overload, short-circuit, non-PoE enabled device etc.

SPECIFICATIONS

Power Specifications:

Input Voltage Range: 90 -264VAC (auto-sensing) *Input Voltage Rating:* 100-240VAC

Frequency Range: 47 – 63Hz *Frequency Rating:* 50 = 60Hz

Maximum In-rush Current: 60A max at 240VAC and maximum load

DC Power Output: PoE protocol: IEEE 802.3af and 802.3at standards with Class detection

Power On Data Pins: 3 & 6 (+), 1 & 2 (-) *Output Voltage:* +56VDC (+1V /-2V)

Maximum Power on Port: 35W –Class 4@ 40°C (Exceeds PoE Standard)

Load: 10mA *(min) 0.35A (max) *Regulation (line/Load):* ± 5%

Efficiency: 80% typical at maximum load, and 120VAC 60Hz, class 4

Hold-up Time: 10mS Maximum load and 120VAC 60Hz

Operating Temperatures: -

-20°C to 40°C (-4°F to 104°F) @ 35 Watts -20°C to 55°C (-4°F to 131°F@ 25 Watts

-20°C to 60°C (-4°F to 140°F) @ 20 Watts

Non-Operating Temperature: -20°C to 65°C (-4°F to 150°F) at 35 Watts

Relative Humidity: 5% to 90% non-condensing

Operating Altitude: -305m to 3,048m (-1000ft to 10,000ft) above sea level

Product Part No's	Description
D1800-P34	Single port, High Power/PoE 35W mid-span injector complete with wall mount bracket and removable power connector 90 – 260VAC
D1801-SP12	12VDC voltage adaptor/splitter, takes PoE power/data and provides up to 21W (1.75A) 12VDC over 2 conductor cables (12" with 2 bare wires for screw terminal connection) & RJ45 connection to IP Device for 10/100 Mbs data pass through.
D1801-SP24	24VDC voltage adaptor/splitter, takes PoE power/data and provides up to 21W (0.875A) 24VDC over 2 conductor cables (12" with 2 bare wires for screw terminal connection) & RJ45 connection to IP Device for 10/100 Mbs data pass through.

Dycon Power Solutions Ltd

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For more information about the Dycon range of power products:

www.dyconpower.com

Or to discuss your specific needs:

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Dycon leads the security and associated power supply markets, with UK design and manufacture of advanced power products; engineered to provide high quality, cost-effective solutions to meet current regulations and the specific needs of system integrators and end-users.

Designed and manufactured in the UK