

D1800

High Power/PoE Plus, Midspan, Single-Port Injectors
12Vdc and 24Vdc PoE adaptors/Splitters



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.



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Power-over-Ethernet Solutions

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

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 @ 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 (<i>Exceeds PoE Standard</i>)
Load	10mA *(<i>min</i>) 0.35A (<i>max</i>) Regulation (line/Load): ± 5%
Efficiency	80% typical at maximum load, and 120Vac60Hz, class 4
Hold-Up Time	10mS Maximum load and 120Vac 60Hz
Relative Humidity	95% non-condensing
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

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.

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For more information about the Dycon range of power products:

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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