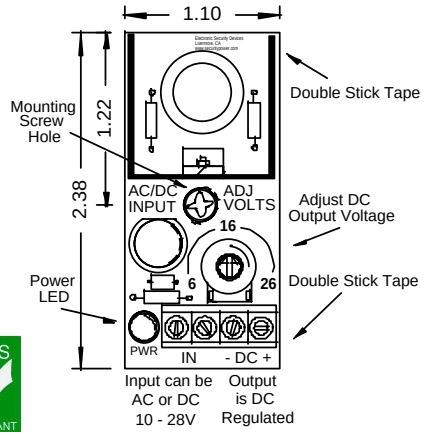
DCPM-1 1 Amp
DCPM-15 (5 Pak) 5 Amp Strip

DC Power Module
Linear Power Supply
6VDC to 26VDC Adjustable
Life Time Warranty



RoHS COMPLIANT

Features:

- **6-26vdc Adjustable DC Output Voltage**
- **-5v option is 5.0V Fixed**
- **Low Voltage AC or DC Input**
- **Up to 1 Amp Continuous Supply Current**
- **Clean Linear Output**
- **Electronically Protected Against Over Current and Temperature**
- **Can be Paralleled for Higher Output Current**
- **Precise Output Regulation**
- **Input and Output are Surge Protected**
- **Available as 1 or 5 Pak**
- **Available as a module or mounted in an Enclosure with Transformer**
- **Small Size: 2.4"L x 1.1"W x 2"H**
- **Quality Manufactured in the USA**

Some Applications:

- **Power 6-26vdc or 5V board camera, reader or other accessory from 24 volt AC or DC from existing CCTV or Lock Power.**
- **4 DCPM-1's coupled with our 24vac 4 output Multi-Winding transformer in an 8" X 9" enclosure, PN: (PDD-4EST4MW) makes 4 individually isolated outputs that are adjustable from 6 to 26 volts DC each. This individual isolation can be very useful with board camera products where the shield and minus power are connected together.**
- **The DCPM-15 (5 pak) coupled with our 16vac 100va transformer mounted in an 8" x 9" enclosure, PN: PDD-5EST5 provides 5 outputs each adjustable from 6-26vdc at up to 1Amp. See chart.**

Description

The DCPM-1 is a versatile linear power module. It can be used to power DC Board Cameras, Miniature Fiber Optic Transmitters or Access control products such as Door Readers and REX'S. To power the unit, you simply apply 10 – 28V AC or DC power to the input and you get 5v or 6-26VDC with up to 1 Amp output (see Output Current graph). A typical CCTV application could have our PDA-8ET4 powering 7, 24vac cameras and then a wire run to a covert board camera powered by our DCPM-1. An access control application would be where you have 24VDC lock power and you use a DCPM-1 to power a lower voltage REX and/or door reader from the 24VDC source.

Ordering Information

DCPM-1	DCPM-1 Adj.1 Amp Power Module
DCPM-15	5 DCPM-1's – break apart 5 Pak strip.
-5v	Option Fixed at 5.0VDC
PDD-4EST3	3A DC continuous output, each adjustable from 6-18VDC at 1 Amp. 5A Total - DCPM-15, TX-16100, mounted in an 8" x 9" x 3.5" Enclosure.
PDD-4EST4MW	4 DC outputs, each adjustable from 6 to 26vdc with up to 1A each. Our (MW) multi-winding transformer isolates each DC output, all mounted in a 8"x 9" enclosure
PDD-8ET8MW	8 DC outputs, each adjustable from 6 to 26vdc with up to 1A each. Our (MW) multi-winding transformers isolates each DC output, all mounted in a 14"x 9" enclosure.

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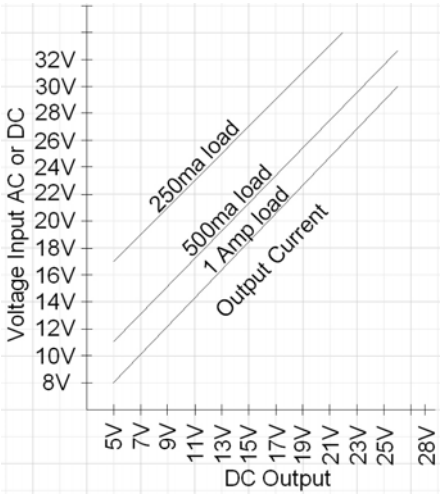


Output Current

Each DCPM-1 can provide up to 1A of continuous current. Because the power module is a linear device, it must dissipate the heat developed between the input and the output voltage times the current. See the graph on the left to check your maximum available continuous current. The Input must always be more then the output. The graph is based on 3W of power being dissipated on the heat sink.

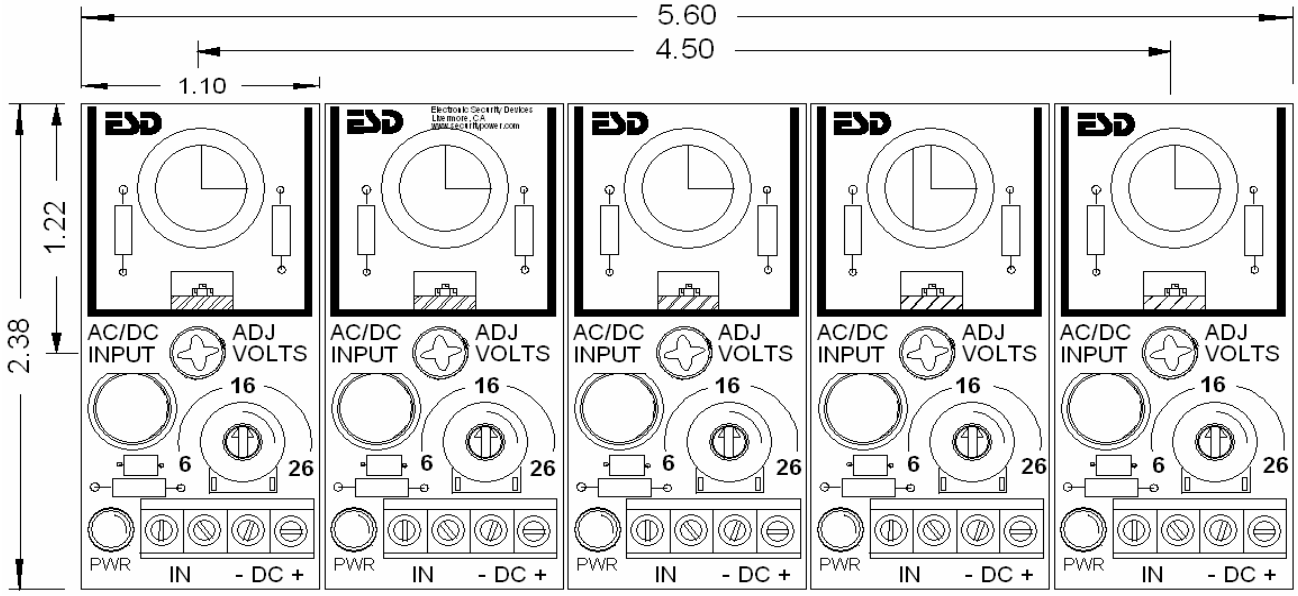
When selecting a transformer for the input, multiply the output current times 1.5. A 1 Amp output would require 1.5Amps of AC input. If the input were DC, the Input and output current would be the same.

Paralleling DCPM-1's

As many units may be wired in parallel as are needed to provide the output current desired. As an example, the output amps could be doubled by connecting 2 DCPM-1's in parallel. When paralleling DCPM-1's, all of the inputs and outputs must be kept together in the same phase. That means each of the 1st position (power in) terminals are connected together and each of the 2nd position (power in) terminals are connected together.

After all the inputs are connected, adjust all the outputs to the same desired voltage. Set them as close as is practical, + or - .1 volt is good. Then tie all the 3rd position (-DC outputs) together and all the 4th position (+DC outputs) together. Keep all the polarities the same. The thermal fold back circuitry in the DCPM-1 is what allows these units to be paralleled. If one unit gets too hot, it will pass some of the load to a cooler unit.

Fig 2 is very close to an actual size drawing of a DCPM-15 (5 Pak) Strip. A 5 Pak could provide up to 5 Amps when connected in parallel.



SPECIFICATIONS

Maximum Output Current Electronically Limited 1.5Amps
Maximum Continuous current rating ..... 1 Amp
Absolute maximum input voltage ..... 28vac or 48vdc
Thermal Fold Back and Shutdown 225oF
Ambient operating temperature range .. -30°F to +130°F
Storage Temperature ..... -60°F to 190°F
DC Output Voltage Adjustable Range 6-26vdc
-5v option is Fixed at 5.0vdc
Voltage Change after 1 Year (Long Term Stability) .02vdc
Typ Regulation from No Load to Full Rated Current .05%
Typical Ripple and Noise @ 700ma Load 50mv
DCPM-1 Module Size ..... 1.1"W x 2.38"H x 2"
DCPM-15 5 Pak Module Size ..... 5.6"W x 2.38"H x 2"D
Mounting Holes (1 per each DCM-1) C-to-C ..... 1.125"
(S) Small Enclosure (PDD-5EST5) ..... 8" x 9" x 3.5"D
(E) Standard Enclosure (LP-5EX12D8)... 14" x 9" x 3.5"D
Lead Free RoHs