



AM Power Systems

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**LIGHTNING Series**

**AM1203f-PM w/Vout of 1.2KV (Fixed)**

***HI-Voltage DC-DC Converter w/Vin (3.0-5V) and Single Fixed Vout (1.2KV)  
(Preliminary 09'07)***

The **AM1203f-PM** is a single positive high output voltage DC-DC converter with the input voltage ( $V_{in}$ ) range being 3.0 to 5.0 volts and with the output voltage ( $V_{out}$ ) of 1.2KV. Applications include radiation detection, industrial control verification, medical imaging or Homeland Security detection equipment. With the latest in PWM integrated circuit (IC) design, these high efficiency parts have an output ripple less than 1%.

**SPECIFICATIONS:**

Internal regulation with advanced solid-state PWM design

Input Voltage Range:  $V_{in} \geq +3.0V \leq +5V$

Output Voltage:  $V_{out}$  (fixed) +1200V (positive) w/ $\pm 10\%$   $V_{out}$  tolerance at nominal input voltage

Maximum load/output current:  $< 2\mu A$  for 1.2KV

Maximum input current: 32mA at 5V input voltage and max load

Maximum power consumption: 0.15W at max load of 10 Mohm resistance.

Maximum "no load" power consumption: 0.03W.

$V_{out}$  stability over temperature:  $\pm 3\%$

Capability of auto thermal and over-voltage shutdown included

Min Efficiency: 40% on maximum load.

Output voltage ripple:  $\pm 1\%$  max.  $V_{out}$

Regulation: referenced to +1200V output

**OTHER CONSIDERATIONS:**

Max Size: (35x18x12)mm  $\pm 2$ mm.

EMI shielding: optional w/metal can/cover

Environmental Temperature range: -10C +50C

PCB mount: Thru-hole

Thru-hole Suffix - T

**PRICE & DELIVERY:**

Delivery from stock for small quantities ( $< 10$  units)

Pricing at the 2-4 pc. level is \$149.00 each,

5-9 unit pricing is \$139.00 each.

10-19 units - \$129.50 each.

20-29 units - \$99.00

For Higher Volumes - contact factory

**NRE FEES FOR CUSTOM DESIGNS** (customer application specific  $V_{out}$  req'ts)

Up-front fees - \$3,750.00 payable 2/3 at time of order placement, balance on delivery of samples

First delivery of 2-9 units in 3-4 weeks after P.O. placement

Delivery up to 10-25 units in 2-3 weeks after first delivery.

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