

APS100DMA SERIES:



100 Watt Single Output Models

- 2.40 x 2.28 x 0.50" Encapsulated Half Brick

Features:

- 48VDC (36~78Vin Range) Input
- Encapsulated with 6 Sided Shield
- Pi Input Filter
- Sync Function with Fixed Frequency Operation (230KHz)
- Remote On/Off, Trim & Sense Functions
- International Safety Approvals
- 2 Year Warranty

INPUT:

Input Voltage	36~78 VDC Input Range
Inrush Current	84A at 48Vdc (cold start)
Input Current	Typical 2.4A full load and 0.04A no-load at 48Vdc nominal input
Input Protection	External fuse required
Input Filter	Pi-Network for EMI suppression
Undervoltage Protection	Lock-out at 30-34Vdc
Reflected Ripple	240mA pk-pk at 48Vdc
Isolation	1500 VDC

GENERAL:

Efficiency	84% minimum (48Vin / Full Load)
Operating Temperature	-40~+85°C, see derating curve
Storage Temperature	-55°C to +125°C
Over-Temp Protection	>85°C Shutdown (Ambient), auto-recovery
Baseplate Cooling	100 LFM Minimum (see curve)
Operating Humidity	5-90% RH, Non-Condensing
Vibration	5 ~ 50 Hz, acceleration 7.35 m/s*s on X,Y and Z Axis
MTBF	>100k Hrs (according to MIL-HBK-217F) at 30°C

OUTPUT:

Trim Range	±10%
Minimum Load	n/a
Line Regulation	±1% max
Load Regulation	±1% max
Ripple & Noise	±1% typ. pk-pk @ 20MHz
Overload Protection	125~150% of max power (Hiccup Mode)
Over Voltage	Latching before 130% of nominal
Short Circuit Protection	Trip without damage & auto-recovery
Transient Response	400mV max deviation, recovers <200µs following a 25% load change

STATUS & CONTROL:

Remote on/off	Positive logic
Remote Sense	Compensates for <500mV
Trim Function	-20 ~ +10% Vout Trim Range
Sync Pln	internal oscillator can be synchronized to an external clock with an external pull-down device.

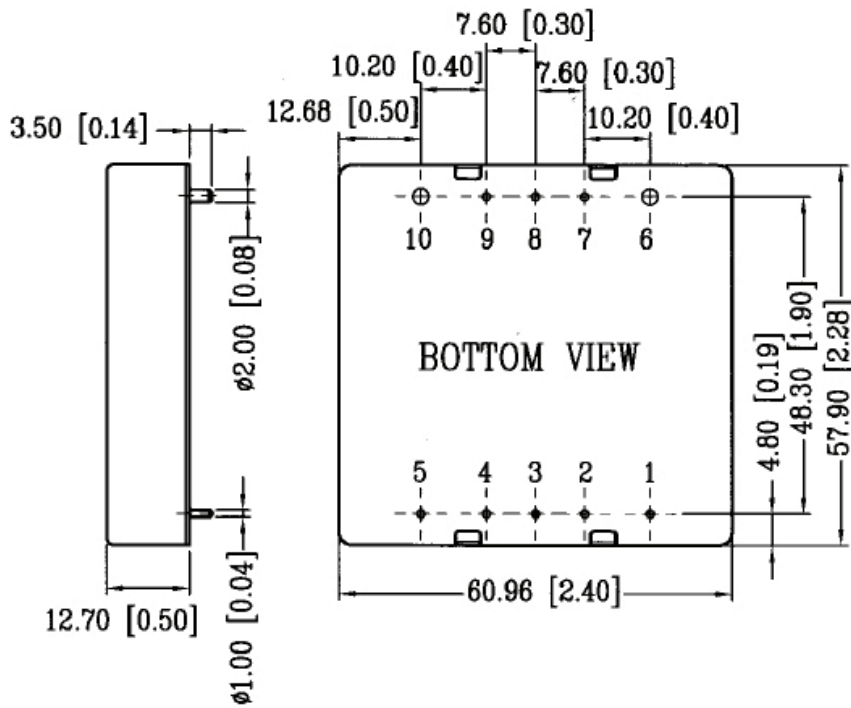
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Output Specifications:

Model:	Vin Range	Vout	Iout	Peak Load
APS100DMA-48B-S033300	36~78VDC	3.3V	30.0A	36.0A
APS100DMA-48B-S050200	36~78VDC	5.0V	20.0A	24.0A
APS100DMA-48B-S120083	36~78VDC	12V	8.3A	10.0A

- Add the suffix "N" to designate Negative Logic on/off control

OUTLINE DRAWING:



PIN NO.	SINGLE
PIN# 1.	+Vin
PIN# 2.	Remote On/Off
PIN# 3.	SYNC
PIN# 4.	CASE
PIN# 5.	-Vin
PIN# 6.	+VO1
PIN# 7.	+S
PIN# 8.	TRIM
PIN# 9.	-S
PIN# 10.	DC COM

