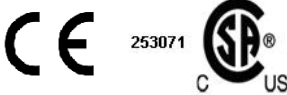




## 5-10 Watt, Regulated AC/DC Modules, PCB mounting Series DVA10M



253071



Vout 5V, 5,1V & 24V only



### Features

- Wide Input Range 90 – 264 VAC
- Single Outputs, Regulated
- Isolation I/O 3,75K VAC
- Approval CSA60950-1/ , UL60950-1 ( Vout 5V, 5,1V & 24V )
- Efficiency to 83%
- Operating Tem. Range -40°C to +85°C
- EN60950 / EN 55022 Class B / CE Conformity

MODEL NUMBER		INPUT VOLTAGE [ VAC / VDC ]	OUTPUT VOLTAGE [ VDC ]	OUTPUT CURRENT MAX. [ mA ]	EFF. TYP. [ % ]	OUTPUT POWER [ W ]	APPROVAL	CASE Height [ mm ]
03.010.006	DVA90-264-3,3S1500M	90 – 265 VAC / 100 – 250 VDC	3,3	1500	75	5		M 23,8
03.010.012	DVA90-264-5,1S1600M		5,1	1600	75	8,16	CSA c/us	
03.010.017	DVA90-264-05S2000M		5	2000	75	10	CSA c/us	
03.010.008	DVA90-264-12S830M		12	830	80	10		
03.010.009	DVA90-264-15S660M		15	660	80	10		
03.010.010	DVA90-264-24S420M		24	420	83	10	CSA c/us	
03.010.018	DVA90-264-3,3S1500M	90 – 265 VAC / 100 – 250 VDC	3,3	1500	75	5		M 23,0
03.010.019	DVA90-264-5,1S1600M		5,1	1600	75	8,16	CSA c/us	
03.010.020	DVA90-264-05S2000M		5	2000 (Note2)	75	10	CSA c/us	
03.010.021	DVA90-264-12S830M		12	830	80	10		
03.010.022	DVA90-264-15S660M		15	660	80	10		
03.010.023	DVA90-264-24S420M		24	420	83	10	CSA c/us	

#### Note:

1. Only for Vout 5V/2A ; 12V / 15V / 24V:  
Output Power 10Watt for Input Voltage 120 to 250VDC;  
Output Power 6Watt for Input Voltage 100 to 120VDC
2. DVA90-264-05S2000M:  
Vin Range ≥180Vac to 265Vac: Output Voltage 5Vdc / 2000mA  
Vin Range 90Vac to <180Vac: Output Voltage 5Vdc / 1500mA

**INPUT SPECIFICATIONS:**

Input Voltage .....	90 – 264VAC / 100 – 250VDC
Input Frequency .....	47 – 63Hz / 0 Hz

**OUTPUT SPECIFICATIONS:**

Output Voltage Accuracy .....	±3,0%
Ripple .....	I load=I nom.; BW=1MHz ≤1%
Noise ( ≤30MHz ) .....	I load=I nom.; BW=30MHz ≤2%
Temperature Coefficient .....	-40°C ≤ Ta ≤ +85° 0,02%/K max.
Response Time ( 70 – 100% ) .....	(10% - 90%)*Inom ≤2,5ms
Short Circuit Protection .....	continuous
Short Circuit Current .....	≤1,5*Inom
Line Regulation .....	I load = I nom. ≤0,1%
Load Regulation .....	I load=(10% - 90%)*Inom ±0,5%

**GENERAL SPECIFICATIONS:**

Efficiency .....	see table
Isolation Voltage I/O .....	3,75K VAC
Switching Frequency .....	67 KHz
Operating Temperature Range .....	-40°C to +85°C
Derating above 55°C .....	5,1V 1,76%/K
	Output 3,3V ; 12V ; 15V ; 24V 2,0%/K
Derating above 50°C .....	Output 5V / 2A 2,5%/K
Over Temperature Protection .....	Measured Middle of Case 100°C
Storage Temperature Range .....	-40°C to +105°C
Interference immunity .....	EN61000-6-2
	ESD Electrostatic discharge EN61000-4-2
	RF field susceptibility EN61000-4-3
	Burst .....
	( ±1KV ) EN61000-4-4
	Surge .....
	( ±1KV symmetrical, ±2kV asymmetrical ) EN61000-4-5
	HF fields conducted disturbances EN61000-4-6
	Voltage interruption EN61000-4-11
EMI/RFI Conducted .....	EN61000-6-4 (EN55022 Class B)
Electrical Safety ( in Accordance with ) .....	EN60950
Approvals .....	Output 5V & 5,1V & 24V CSA60950-1-2nd; UL60950-1-07-2nd
Dimension ( L x W x H ) .....	52,5 x 27,3 x 23 mm
Case Material .....	Plastic

**Note:**

Installation requirement: According to EN60950-1 is mains in the phase line (L) a fuse max. 1,0 A/T should be.

Proposal: SIBA Reihe 166000 1A/T.

„ For DC-Operation a fuse according to the application is to be used.“

( Proposal: fuse with order number 179200.1. from SIBA - UL recognized with 1500A@300VDC breaking capacity).

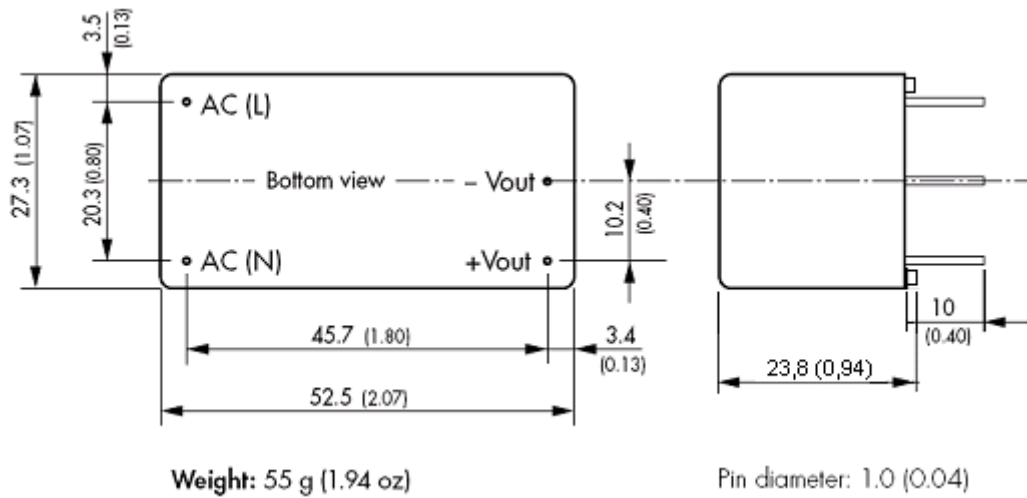
Technical Data at Ta=25°C and Vin=230Veff unless otherwise specified.

## CASE M Height 23,8 mm

Series DVA10M

Bottom View. Pin diameter = 1.0 mm ( 0.04 Inch )  
Pin pitch tolerance:  $\pm 0.3$  mm ( 0.012 Inch )

For Model 03.010.006 / 03.010.008 / 03.010.009 / 030.010.010 / 030.010.012 / 03.010.017



## CASE M Height 23,0 mm

Series DVA10M

Bottom View. Pin diameter = 1.0 mm ( 0.04 Inch )  
Pin pitch tolerance:  $\pm 0.3$  mm ( 0.012 Inch )

For Model 03.010.018 / 03.010.019 / 03.010.020 / 030.010.021 / 030.010.022 / 03.010.023

