

Data Sheet

VS-HVISO-24V50W-01

Part No.: AA-10322-001



High insulated power supply

Features

- Compact Design
- High insulation voltage up to 24kV
- Different output voltages available (consult factory)

Rev.	Remarks / changes	created		checked		released	
01	Initial	AST	15.11.12				
02	Mechanical data	PG	20.06.13	FF	25.06.13	AST	26.06.13

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1. Introduction

1.1. Description

The VS-HVISO-24V50-01 power supply is a voltage source which can be used for powering electronic units on very high voltage level. The power supply is also capable to withstand high d_v/d_t .

1.2. Electrical interfaces

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Input voltage	V_{in}		20	24	28	V
Input current	I_{in}		-	-	3	A
Inrush current	I_r		-	-	3	A
Input Power	P_{in}		-	-	60	W
Output voltage	V_{out}		22	24	26	V
Output current	I_{out}		-	-	2.1	A
Output power	P_{out}		-	-	50	W
Insulation voltage	$V_{insulation}$	50Hz, 1 minute	24	-	-	kV
Insulation capacitance	$C_{insulation}$	primary - secondary	-	-	20	pF
Input – Output d_v/d_t	d_v/d_t		-	40	-	kV/ μ s

1.3. Environmental conditions

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Ambient temperature	T_{amb}	-	-20	-	+70	°C
Storage temperature	T_{store}	-	-40	-	+85	°C
Humidity	Hum	Non condensing	-	-	95	% RH
Operating altitude	Alt	-	-	-	3000	m

2. Connectors and indicators

2.1. Connectors

Parameter	Description
Input	Phoenix MKDS 3/ 2-5,08
Output	Phoenix MKDS 3/ 2-5,08

2.2. Indicators

Parameter	Description
Input	LED Red / green
Output	LED Red / green

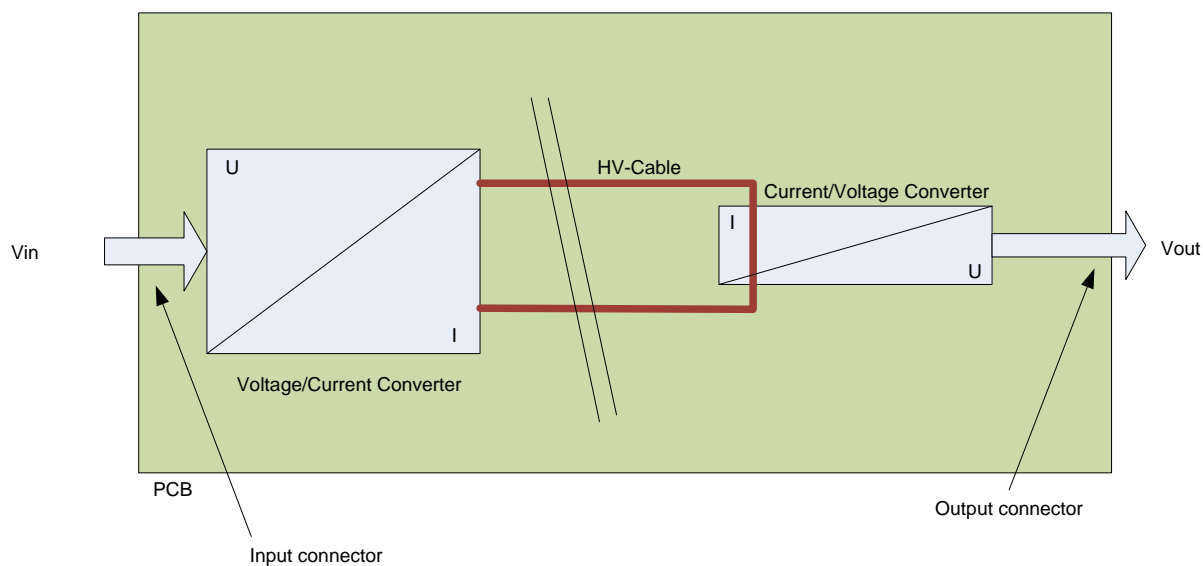


Make sure that the device work correctly before using in a critical application.

3. Function

3.1. Block diagram

The following diagram shows the main components of the power supply.

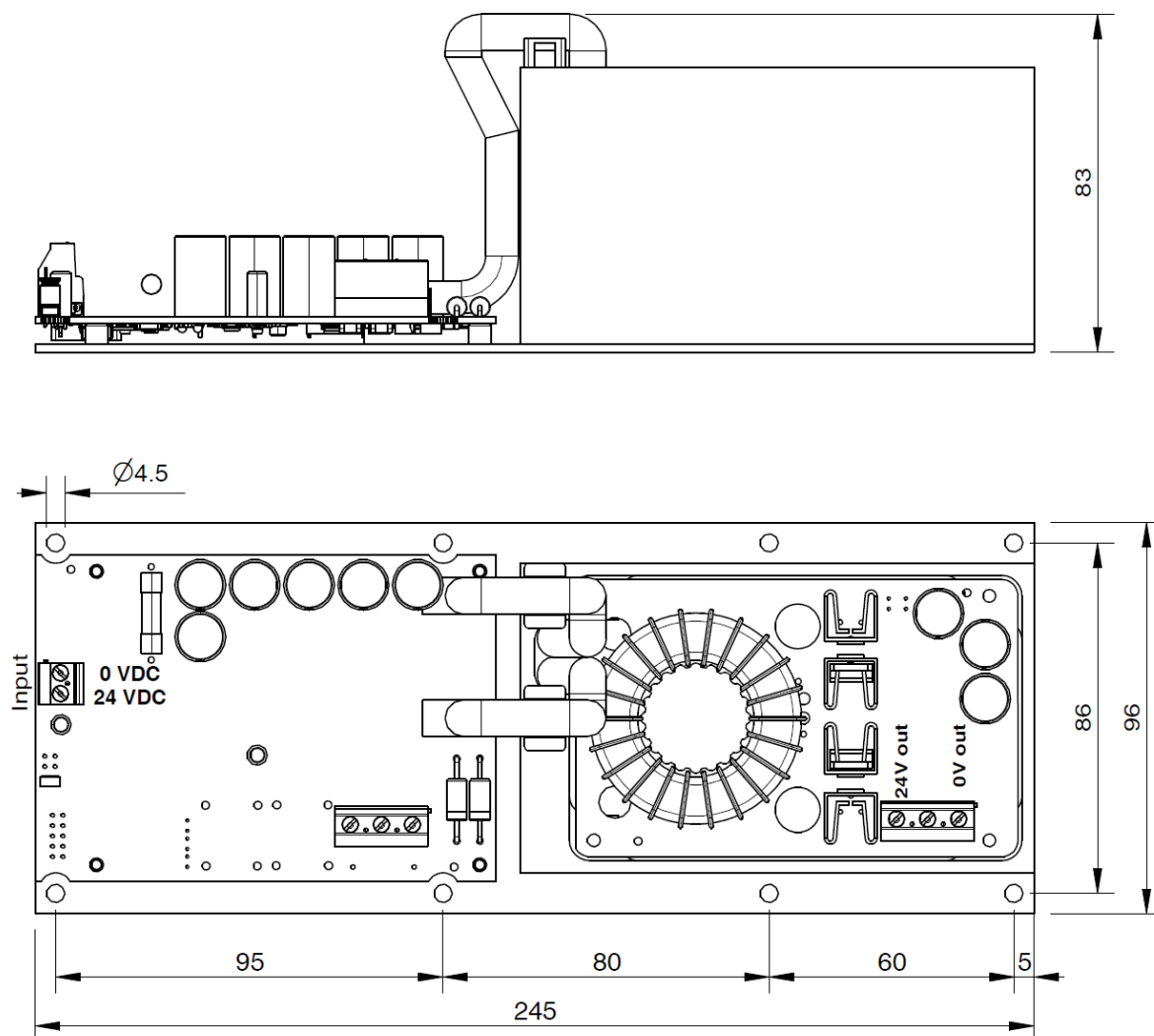


4. Mechanical

4.1. Parameters

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Weight	M	-		0.62		kg
Dimensions	WxDxH	-		(245 x 96 x 83)		mm

4.2. Mechanical Drawing



4.3. Labels

4.3.1. Front side

- Nothing

4.3.2. Rear side

- Nothing

4.3.3. Bottom side

- Nothing

4.3.4. Top side

- Type label with serial number

Contract: Axx-xxxx_x	S/N: xxxxxxx
AA-10322-001 Rev. A	U _{nom} = 24VDC
VS-HVISO-24V50W-01	
Status: *Engineering*	
Astrol Electronic AG Swiss made	

5. Order code

AA-10322-001

VS-HVISO-24V50W-01

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