

unregulated

# INDUSTRIAL DC/DC Converters

15 Watt  
 Series: MHVI

Applications:

- IGBT auxiliary supply
- medical application

High reinforced  
 and partial discharge free insulation

**EN50178 / EN50124-182 / EN61800-5**

### Electrical specifications:

Output voltage accuracy: unregulated  
 Short circuit protection: continuous  
 @ 24Vin: short-time  
 -40°C up to +95°C  
 Ambient temperature: -40°C to +71°C  
 Optional:  
 Part-No.: /8  
 Capacitance Prim/Sec/Sec: -55°C to +85°C  
 typical <15pF

Efficiency: up to 84%  
 Primary / Secondary: insulation test voltage 10 kV  
 du/dt...>100kV/μs

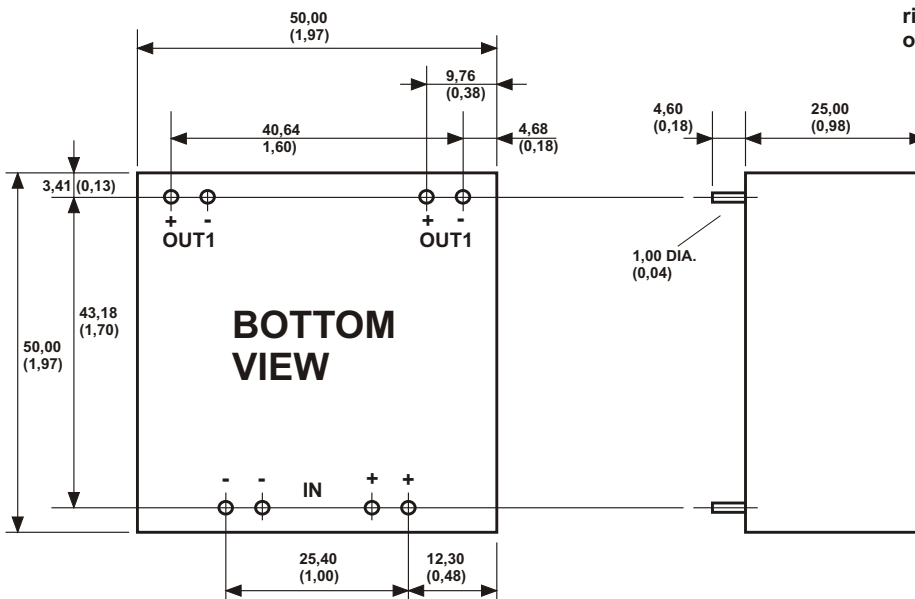
Part-No.: /1 partial-discharge 1kV AC free (TE-frei)  
 Part-No.: /2 partial-discharge 2kV AC free (TE-frei)  
 Part-No.: /4 partial-discharge 4kV AC free (TE-frei)  
 Part-No.: /5 partial-discharge 5kV AC free (TE-frei)

All specifications typical @ Ta +25°C  
 Nom. Vin & full load, unless otherwise specified!

**CAUTION: NO INPUT POLARITY CHANGE ALLOWED!**

Part - No. Single	Input Voltage DC	Output Voltage DC	Output power max.
MHVI-05xx	4,75V - 5,5V	xx V	max. 15W any configuration possible
MHVI-12xx	10,8V - 13,2V	xx V	
MHVI-15xx	13,5V - 16,5V	xx V	
MHVI-24xx	21,6V - 26,4V	xx V	

Additional 470μF input & output capacitors  
 recommended  
 ripple & noise depend  
 on load & external capacitors



ALL DIMENSIONS IN MM (INCHES)  
 MILLIMETERS +/- 0,5mm  
 (INCHES +/- 0,02")  
 All pins on a 5,08mm pitch.

Specification may be changed without notice  
 please contact office for verification

We can offer EMC - Filter  
 according to EN55011/22 Class B.

unregulated

# INDUSTRIAL DC/DC Converters

2x7,5 Watt = 15 Watt  
 Series: MHVI

Applications:

- IGBT auxiliary supply
- medical application

High reinforced  
 and partial discharge free insulation

**EN50178 / EN50124-182 / EN61800-5**

### Electrical specifications:

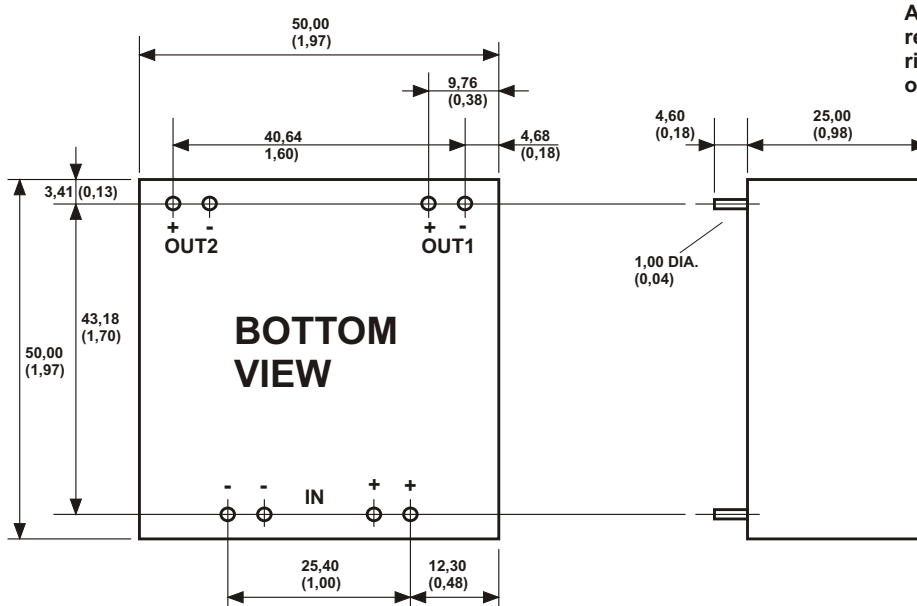
Output voltage accuracy:	unregulated continuous	Efficiency:	up to 85%
Short circuit protection:	@ 24Vin: short-time	Primary / Secondary:	insulation test voltage 10 kV du/dt...>100kV/μs
Operating temperature:	-40°C up to +95°C	Secondary 1/ Secondary 2:	insulation test voltage 10kV du/dt...>100kV/μs
Ambient temperature:	-40°C to +71°C	Part-No.: /1	partial-discharge 1kV AC free (TE-frei)
Optional:		Part-No.: /2	partial-discharge 2,3kV AC free (TE - frei)
Part-No.: /8	-55°C to +85°C ambient temperature	Part-No.: /5	partial-discharge 5kV AC free (TE-frei)
Capacitance Prim/Sec/Sec:	typical <15pF	add isolation quality specifier to part-no. e. g. /2	

All specifications typical @ Ta +25°C  
 Nom. Vin & full load, unless otherwise specified!

**CAUTION: NO INPUT POLARITY CHANGE ALLOWED!**

Part - No.	Input Voltage DC	Output Voltage DC	Output current mA
MHVI-051515	4,75V - 5,5V	15V / 15V	500mA / 500mA
MHVI-121515	10,8V - 13,2V	15V / 15V	500mA / 500mA
MHVI-151515	13,5V - 16,5V	15V / 15V	500mA / 500mA
MHVI-241515	21,6V - 26,4V	15V / 15V	500mA / 500mA

**Any in & output voltage available also with unequal output voltages !**



Additional 470μF input & output capacitors recommended  
 ripple & noise depend on load & external capacitors

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 (INCHES +/- 0,02")  
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