

Unregulated

INDUSTRIAL DC/DC Converters

15 Watt

Series: MLHVI

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
Operating temperature: -40°C up to +100°C
Ambient temperature: -40°C to +71°C
Efficiency: min. 75%
Primary / Secondary: insulation test voltage 10kV
du/dt...>100kV/μs

Efficiency: up to 85%
Secondary 2 / Secondary 2: insulation test voltage 10kV
du/dt...>100kV/μs
Capacitance Prim/Sec/Sec: typical <15pF
Part-No.: /4 4kV AC partial-discharge free (TE-frei)
Part-No.: /5 5kV AC partial-discharge free (TE-frei)
Part-No.: /6 6kV AC partial-discharge free (TE-frei)
Part-No.: /8 -55°C to +85°C ambient temperature
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.
MLHVI-05xx	4,75V - 5,5V	xx V	max. 15W any configuration possible
MLHVI-12xx	10,8V - 13,2V	xx V	
MLHVI-15xx	13,5V - 16,5V	xx V	
MLHVI-24xx	21,6V - 26,4V	xx V	
Part - No. Dual	Input Voltage DC	Output Voltage DC	Output power max.
MLHVI-05xxyy	4,75V - 5,5V	xx V / yy V	7,5W max. / 7,5W max. any configuration possible
MLHVI-12xxyy	10,8V - 13,2V	xx V / yy V	
MLHVI-15xxyy	13,5V - 16,5V	xx V / yy V	
MLHVI-24xxyy	21,6V - 26,4V	xx V / yy V	

example:
MLHVI-1215

example:
MLHVI-121507

The input voltage can be increased by the value of the selected output voltage in boost operation (see Application Note C43, page 149).

single output only pin +out1 / -out1
are connected!

unbalanced output voltage & output
power to customer demand available

Additional 470μF input & output capacitors recommended
Ripple & Noise depend on load & external capacitors

