

## 2W DUAL OUTPUT DC-DC CONVERTER

Type	V <sub>in</sub>	V <sub>out</sub>	I <sub>out</sub>
GS2T48-D12	38 to 60 V	±12 V	±100mA

### DESCRIPTION

The GS2T48-D12 is a 2.4W DC-DC converter designed to provide an isolated +12V/100mA and -12V/100mA power source.

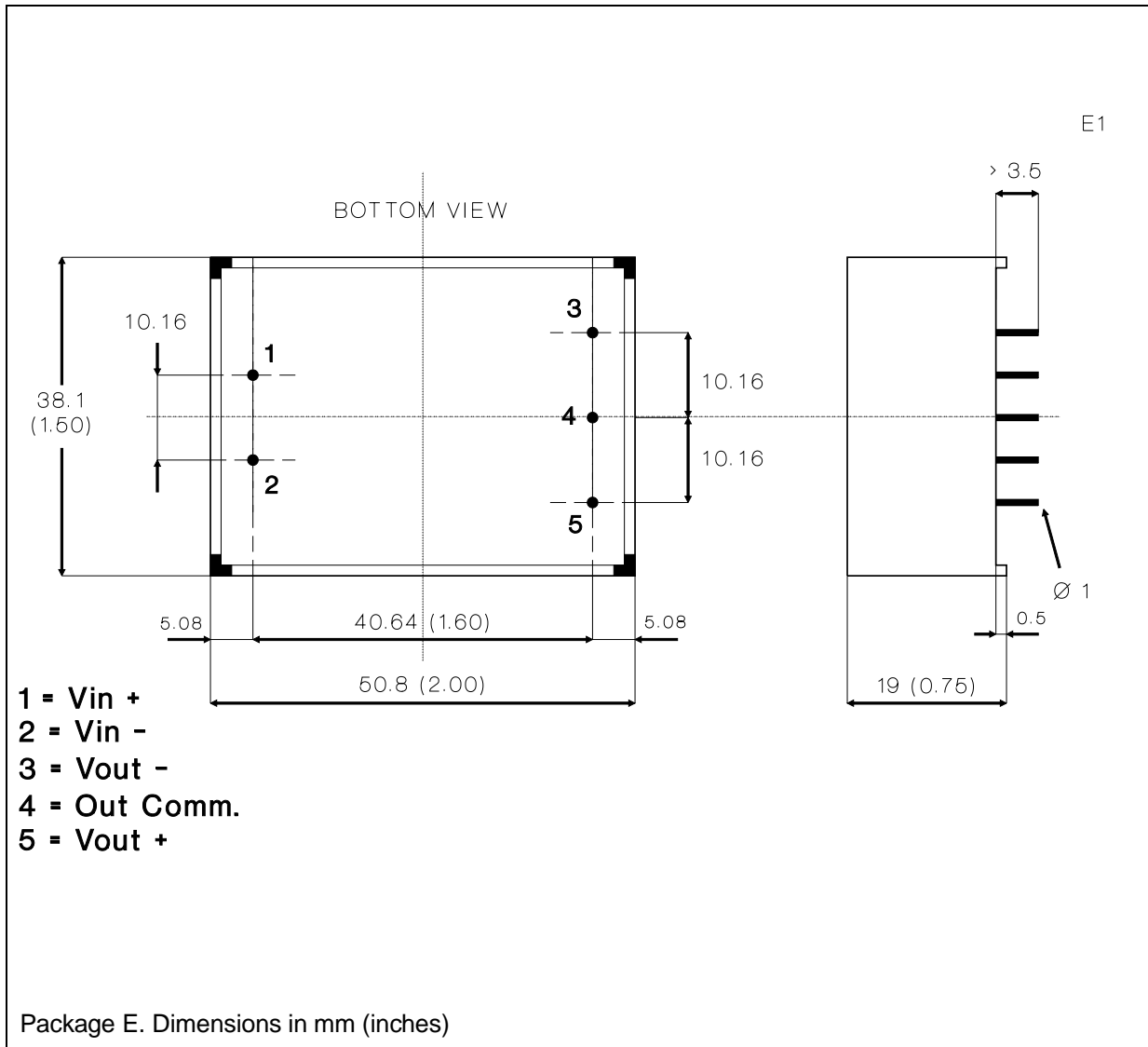
The module operates from wide input range (38 to 60V) and offers low reflected input current and continuous short-circuit protection.



### ELECTRICAL CHARACTERISTICS (T<sub>amb.</sub> = 25° C unless otherwise specified)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
V <sub>i</sub>	Input Voltage	V <sub>o1</sub> = +12V V <sub>o2</sub> = -12V I <sub>o1</sub> = 0 to 100mA I <sub>o2</sub> = 0 to -100mA	38	48	60	V
I <sub>ir</sub>	Input Reflected Current	V <sub>i</sub> = 38 to 60V Full Load		3	5	mApp
V <sub>o1</sub>	Output Voltage 1	V <sub>i</sub> = 38 to 60V I <sub>o1</sub> = 0 to 100mA I <sub>o2</sub> = 0 to -100mA	11.2	12.0	12.8	V
V <sub>o2</sub>	Output Voltage 2	V <sub>i</sub> = 38 to 60V I <sub>o2</sub> = 0 to -100mA I <sub>o1</sub> = 0 to 100mA	-11.2	-12.0	-12.8	V
V <sub>or1</sub>	Output Ripple Voltage 1	V <sub>i</sub> = 38 to 60 I <sub>o1</sub> = 100mA		30	50	mVrms
V <sub>or2</sub>	Output Ripple Voltage 2	V <sub>i</sub> = 38 to 60 I <sub>o2</sub> = -100mA		30	50	mVrms
I <sub>o1</sub>	Output Current 1	V <sub>i</sub> = 38 to 60V V <sub>o1</sub> = 12V	0		100	mA
I <sub>o2</sub>	Output Current 2	V <sub>i</sub> = 38 to 60V V <sub>o2</sub> = -12V	0		-100	mA
V <sub>is</sub>	Isolation Voltage		500			V <sub>dc</sub>
f <sub>s</sub>	Switching Frequency	V <sub>i</sub> = 48V	50	100	150	kHz
η	Efficiency	V <sub>i</sub> = 48V Full Load	70	73		%
T <sub>op</sub>	Operating Ambient Temperature Range		0		+70	°C
T <sub>stg</sub>	Storage Temperature Range		-40		+85	°C

CONNECTION DIAGRAM AND MECHANICAL DATA



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