

2W DUAL OUTPUT DC-DC CONVERTER

Type	V _{in}	V _{out}	I _{out}
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.

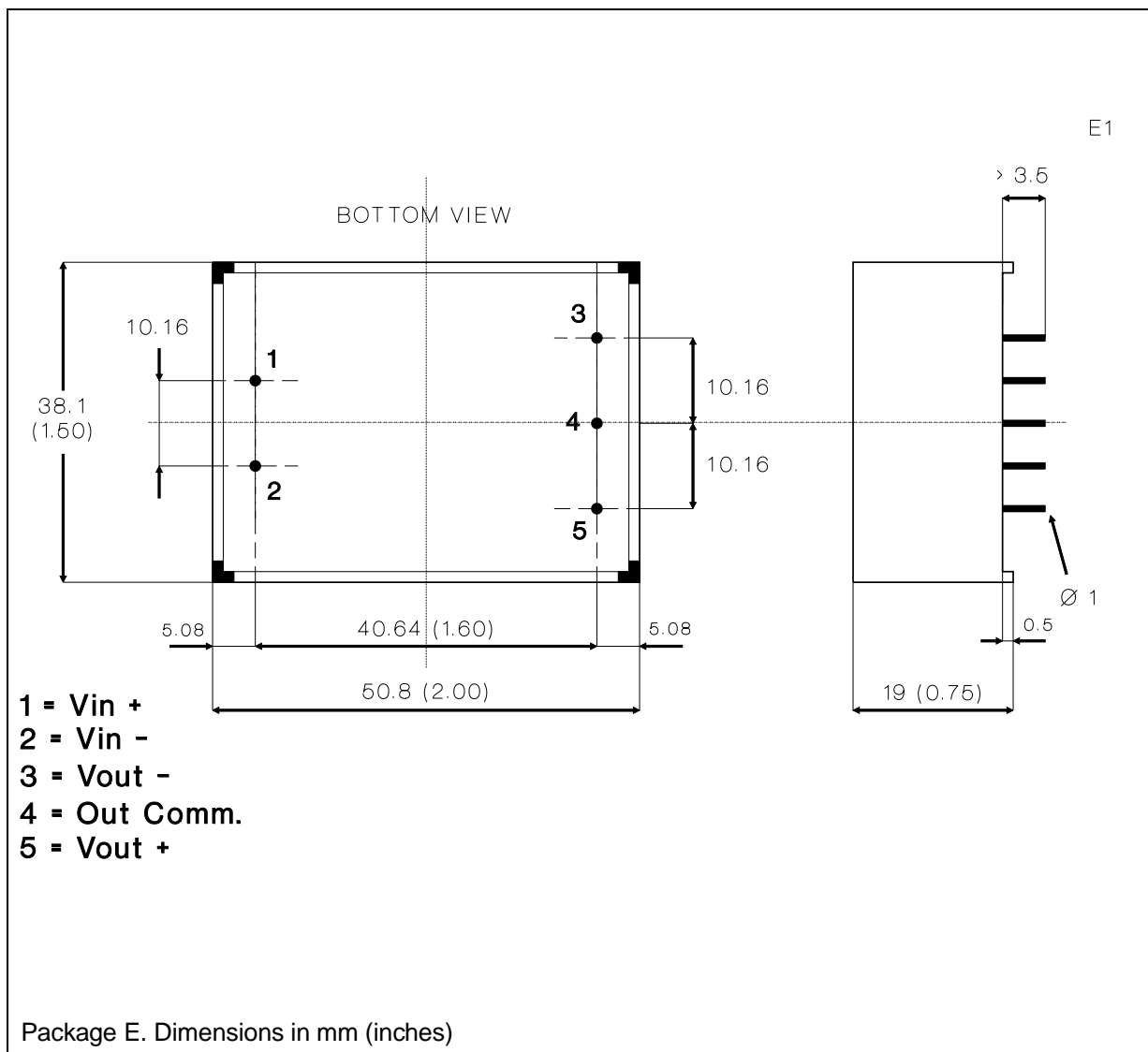
The module operates from wide input range (38 to 60V) and offers low reflected input current and continuous short-circuit protection.



ELECTRICAL CHARACTERISTICS (T_{amb.} = 25° C unless otherwise specified)

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

CONNECTION DIAGRAM AND MECHANICAL DATA



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