

## 5W TRIPLE OUTPUT DC-DC CONVERTER

Type	$V_i$	$V_o$	$I_o$
GS5T24-5D15	17,5 to 30	+ 5 V	200 mA
		+ 15 V	125 mA
		- 15 V	- 125 mA



### DESCRIPTION

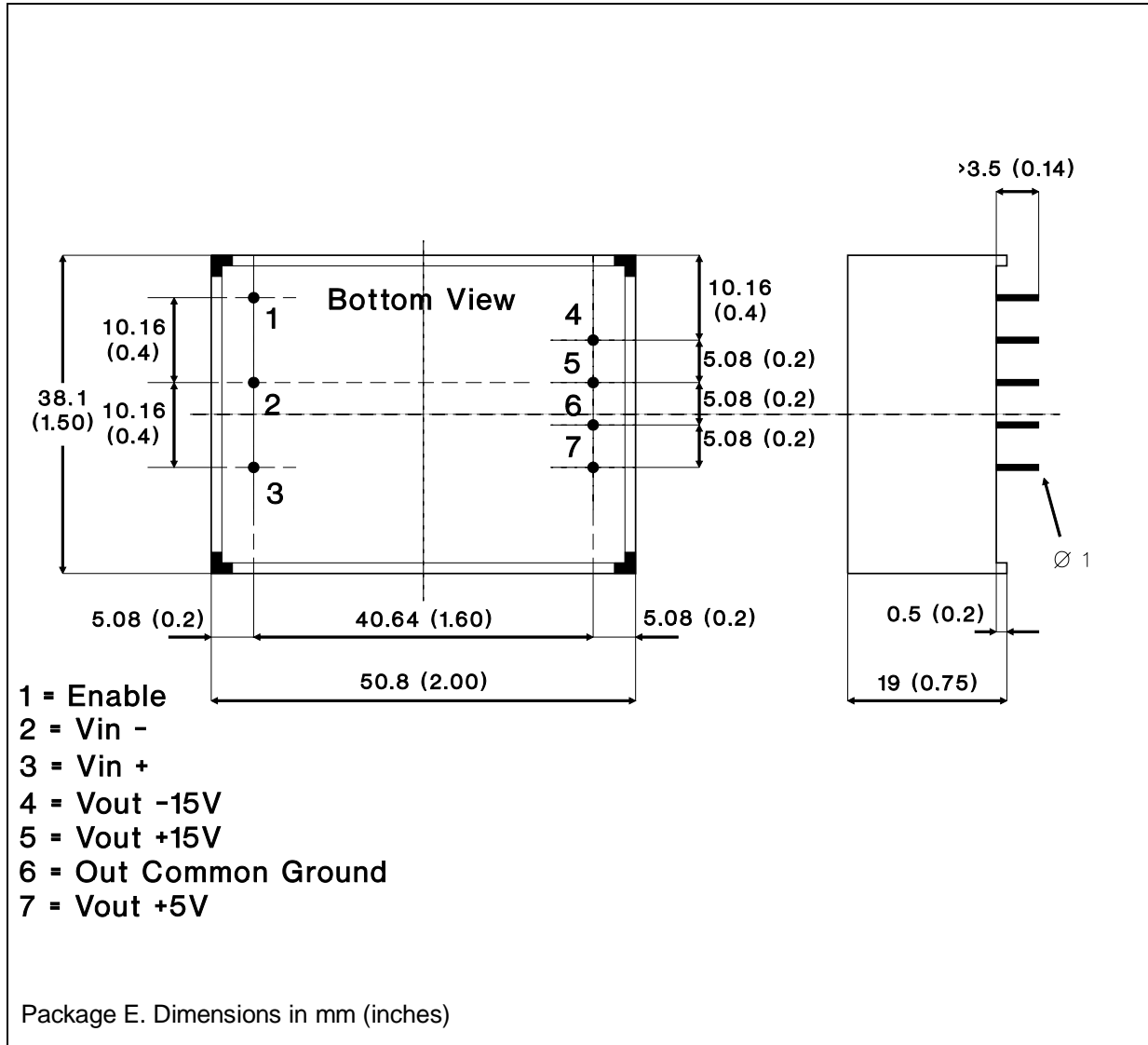
The GS5T24-5D15 is a 5W DC-DC converter designed to provide three isolated outputs: 5V/200mA and a dual  $\pm 15V/\pm 125mA$ .

The module operates from a 24V input source and offers 2500V<sub>DC</sub> isolation voltage. A high level TTL/CMOS compatible input will enable the unit; a low input will inhibit it.

### ELECTRICAL CHARACTERISTICS ( $T_{amb.} = 25^\circ C$ unless otherwise specified)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
$V_i$	Input Voltage	$V_{o1} = 5V$ $I_{o1} = 0$ to 200mA $V_{o2} = 15V$ $I_{o2} = 0$ to 125mA $V_{o3} = -15V$ $I_{o3} = 0$ to -125mA	17.5	24.0	30.0	V
$I_{ir}$	Input Reflected Current	$V_i = 17.5$ to 30V    Full Load on All Outputs			75	mApp
$V_{o1}$	Output Voltage 1	$V_i = 17.5$ to 30V $I_{o1} = 0$ to 200mA	4.75	5.00	5.25	V
$V_{o2}$	Output Voltage 2	$V_i = 17.5$ to 30V $I_{o2} = 0$ to 125mA	14.25	15.00	15.75	V
$V_{o3}$	Output Voltage 3	$V_i = 17.5$ to 30V $I_{o3} = 0$ to -125mA	-14.25	-15.00	-15.75	V
$V_{or1}$	Output Ripple Voltage 1	$V_i = 24V$ Full Load on All Outputs			30	mVpp
$V_{or2}$	Output Ripple Voltage 2	$V_i = 24V$ Full Load on All Outputs			90	mVpp
$V_{or3}$	Output Ripple Voltage 3	$V_i = 24V$ Full Load on All Outputs			90	mVpp
$I_{o1}$	Output Current 1	$V_i = 17.5$ to 30V $V_{o1} = 5V$	0		200	mA
$I_{o2}$	Output Current 2	$V_i = 17.5$ to 30V $I_{o3} = 0$ to 125mA $V_{o2} = 15V$	0		125	mA
$I_{o3}$	Output Current 3	$V_i = 17.5$ to 30V $I_{o2} = 0$ to -125mA $V_{o3} = -15V$	0		125	mA
$V_{is}$	Isolation Voltage		2500			V <sub>DC</sub>
$f_s$	Switching Frequency			120		kHz
$\eta$	Efficiency	$V_i = 24V$ Full Load on All Outputs	65	70		%
$T_{op}$	Operating Ambient Temperature Range	Still air	0		+40	$^\circ C$
$T_{op}$	Operating Ambient Temperature Range	Forced ventilation, air speed = 100 LFM	0		+60	$^\circ C$
$T_{stg}$	Storage Temperature Range		-20		+85	$^\circ C$

CONNECTION DIAGRAM AND MECHANICAL DATA



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