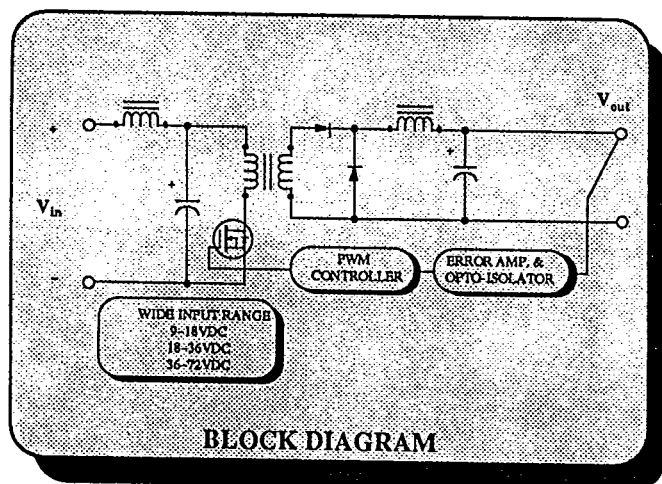


**5 WATT****GWS****T-57-11
SERIES****FEATURES:**

- HIGH EFFICIENCY
- SIX-SIDED SHIELDING
- LOW .40 INCH PROFILE
- 2:1 WIDE INPUT VOLTAGE RANGE

APPLICATIONS:

- BATTERY OPERATED EQUIPMENT
- TELECOMMUNICATIONS
- PROCESS CONTROL EQUIPMENT
- TRANSPORTATION

The GWS Series is a broad line of high performance, high efficiency, single output, Pulse Width Modulated (PWM) DC/DC converters encapsulated in a metal case with six-sided EMI/RFI shielding. By using Current Mode Control technology, all models operate at 100KHz highly efficiently and virtually independent of load & line. A 2:1 input voltage range is specifically designed to provide telecommunication & transportation industries with a low cost/high performance alternative DC/DC converter. An internal LC input filter is standard for all models.

ELECTRICAL SPECIFICATIONS

All Specifications Typical @+25°C, Nominal Line, and Full Load Unless Otherwise Noted.

INPUT SPECIFICATIONS

Input Voltage Range

12 VDC Input Model 9-18 VDC

24 VDC Input Model 18-36 VDC

48 VDC Input Model 36-72 VDC

Input Filter LC Filter

Reverse Voltage Protection Internal Shunt Diode
(External Input Fuse Recommended)

OUTPUT SPECIFICATIONS

Voltage Accuracy $\pm 1\%$, max.

Output Trim $\pm 10\%$, max.

Load Regulation, FL-1/4L $\pm 1\%$, max.

FL-NL $\pm 2\%$, max.

Line Regulation, LL-HL $\pm 1\%$, max.

Ripple and Noise, 20 MHz BW 100 mVp-p, 10 mVRMS

Transient Response,

25% Step Load Charge $< 500 \mu\text{sec.}$

Temperature Coefficient $\pm 0.02\%/^{\circ}\text{C}$, max.

Short Circuit Protection Continuous

GENERAL SPECIFICATIONS

Efficiency FL $> 70\%$

Isolation Voltage 500 VDC, min.

Isolation Resistance $10^9 \Omega$ Ohms, min.

Switching Frequency 100 KHz

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature Range -25°C to $+71^{\circ}\text{C}$

Derating None

Storage Temperature Range -55°C to $+105^{\circ}\text{C}$

Cooling Free-Air Convection

EMI/RFI Six-Sided Continuous Metal Case

PHYSICAL SPECIFICATIONS

Dimensions 2.0 x 2.0 x 0.40 Inches

(51 x 51 x 10.16 mm)

Weight 3.0 Oz. (61 g)

Case Material Black Coated Copper
(With Non-Conductive Header)

SINGLE OUTPUT

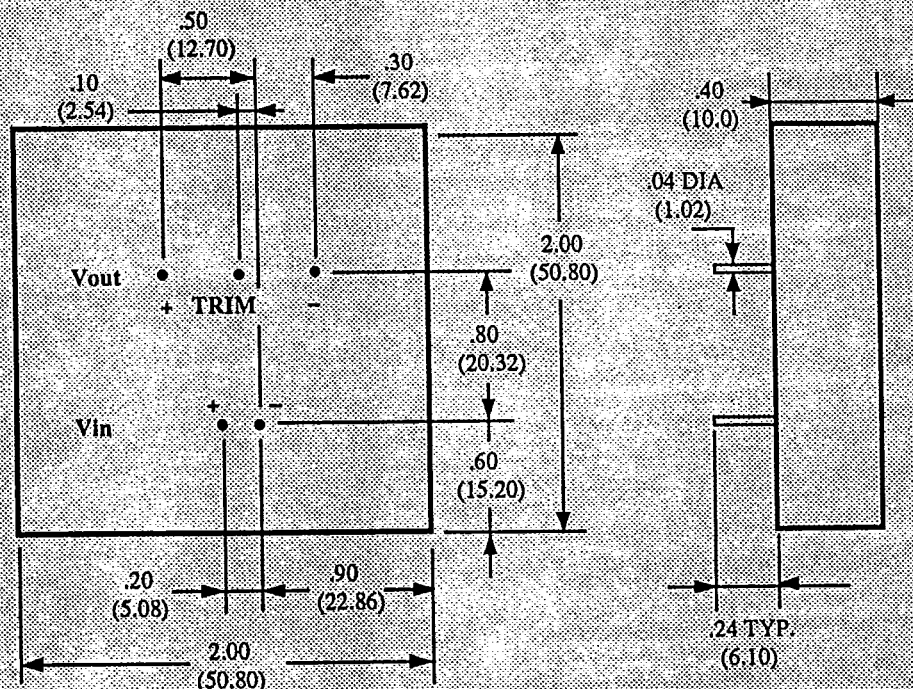
INTERNATIONAL
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INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		% EFF	REGULATION		MODEL NUMBER
			NO/LOAD	FULL/LOAD		LINE	LOAD	
9-18 (12 NOM)	5VDC	1000mA	25mA	530mA	78	±1.0%	±1.0%	GWS1205
	12VDC	420mA	25mA	525mA	78	±1.0%	±1.0%	GWS1212
	15VDC	335mA	25mA	525mA	78	±1.0%	±1.0%	GWS1215
18-36 (24 NOM)	5VDC	1000mA	25mA	280mA	72	±1.0%	±1.0%	GWS2405
	12VDC	420mA	25mA	270mA	75	±1.0%	±1.0%	GWS2412
	15VDC	335mA	25mA	260mA	77	±1.0%	±1.0%	GWS2415
36-72 (48 NOM)	5VDC	1000mA	25mA	130mA	75	±1.0%	±1.0%	GWS4805
	12VDC	420mA	25mA	135mA	73	±1.0%	±1.0%	GWS4812
	15VDC	335mA	25mA	135mA	73	±1.0%	±1.0%	GWS4815

ALL DIMENSIONS IN INCHES (MM)

Specifications Subject to Change Without Notice.



For Optional MATING SOCKET, Please Refer to ACCESSORIES Page. All Mechanical Tolerances are ±0.020"

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GWS 31