

- 4:1 Input Range
- Efficiency to 92%
- Half-brick Package
- OCP/ OVP/ OTP
- continuous short circuit Protection
- Remote ON/OFF



Model Number	Input Voltage	Output Voltage	Output Current	Input No Load	Current Full Load	% Eff.	Cap. Load max.
TP75WE-24S3.3	9 – 36 V	3.3 VDC	20 A	150 mA	3.11 A	88	20000µF
TP75WE-24S05	9 – 36 V	5 VDC	15 A	150 mA	3.43 A	91	15000µF
TP75WE-24S12	9 – 36 V	12 VDC	6.25 A	150 mA	3.41 A	91	6250µF
TP75WE-24S15	9 – 36 V	15 VDC	5 A	150 mA	3.41 A	91	5000µF
TP75WE-24S24	9 – 36 V	24 VDC	3.12 A	70 mA	3.47 A	90	3120µF
TP75WE-24S48	9 – 36 V	48 VDC	1.56 A	70 mA	3.51 A	89	1560µF
TP75WE-48S3.3	18 – 75 V	3.3 VDC	20 A	80 mA	1.54 A	89	20000µF
TP75WE-48S05	18 – 75 V	5 VDC	15 A	80 mA	1.70 A	92	15000µF
TP75WE-48S12	18 – 75 V	12 VDC	6.25 A	80 mA	1.70 A	92	6250µF
TP75WE-48S15	18 – 75 V	15 VDC	5 A	70 mA	1.69 A	92	5000µF
TP75WE-48S24	18 – 75 V	24 VDC	3.12 A	70 mA	1.73 A	90	3120µF
TP75WE-48S48	18 – 75 V	48 VDC	1.56 A	70 mA	1.74 A	90	1560µF

All Specifications are Typical at Nominal Line, Full load, and 25°C Unless Otherwise Noted / © TP 2013

Technische Änderungen vorbehalten / Technical changes reserved

R1408

### INPUT SPECIFICATIONS

INPUT VOLTAGE RANGE .....	24V.....	9V-36V
	48V.....	18V-75V
INPUT SURGE VOLTAGE (100ms max) .....	24V.....	50Vdc max
	48V.....	100Vdc max
INPUT UNDER-VOLTAGE LOCKOUT.....	24Vin power up .....	8.8Vdctyp
	24Vin power down .....	8.0Vdctyp
	48Vin power up .....	17Vdctyp
	48Vin power down .....	16Vdctyp
INPUT FILTER.....		PI Type

Positive Logic Remote on/off Control:

Logic Compatibility .....	CMOS or Open Collector TTL, ref. to $-V_{in}$
Modul ON .....	$> +3.5VDC$ or Open Circuit
Modul OFF .....	$< 1.2VC$

### OUTPUT SPECIFICATIONS

Voltage Accuracy.....		$\pm 1.5\%$ max
Transient Response: 25% step load change .....		$< 500\mu s$
Ripple and Noise, 20MHz BW .....	$V_o = 3,3V \ \& \ 5V$ .....	max. 100mVpp.
	$V_o = 12V \ \& \ 15V$ .....	max. 120mVpp.
	$V_o = 24V$ .....	max. 240mVpp.
	$V_o = 48V$ .....	max. 480mVpp.
Temperature Coefficient .....		$\pm 0.03\%/C$ max
Line Regulation .....		$\pm 0.2\%$
Load Regulation .....		$\pm 0.2\%$
External Trim Adj. Range .....		$\pm 10\%$
Short Circuit Protection .....		continuous
Over Voltage Protection.....		115 – 140%
Current Limit .....		110% - 140% Nominal Output
Start up time .....		15ms typ.

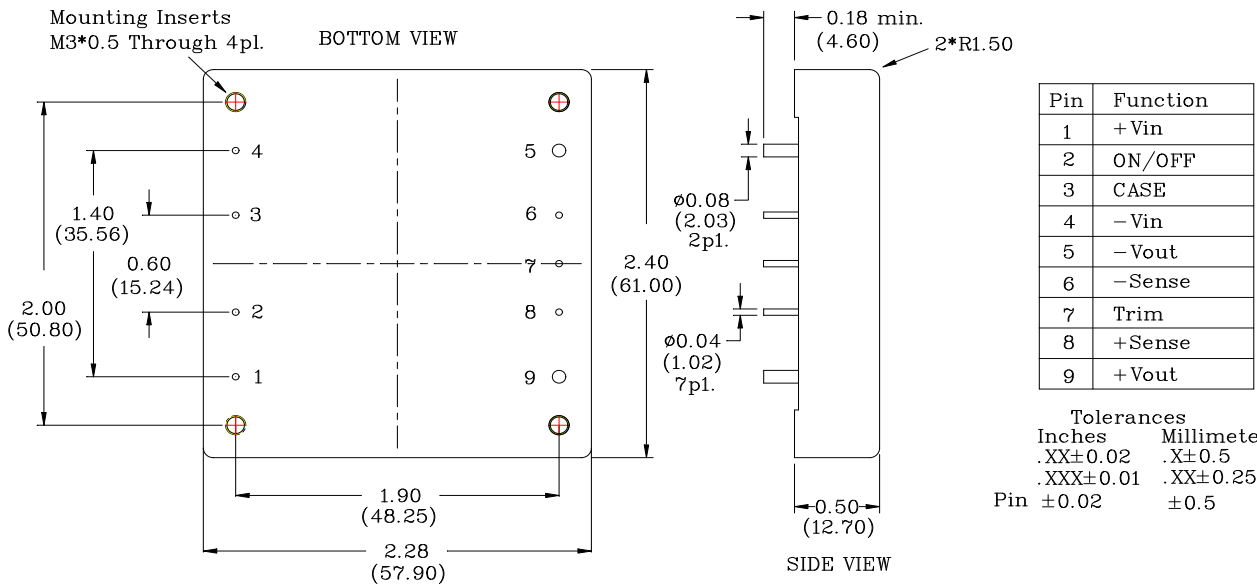
### GENERAL SPECIFICATIONS

ISOLATION VOLTAGE.....		1500VDC max.
ISOLATION RESISTANCE .....		10 MOhm
SWITCHING FREQUENCY.....		250KHz typ.
OPERATING TEMPERATURE RANGE.....		$-40^{\circ}C$ TO $+105^{\circ}C$
THERMAL SHUT DOWN; CASE TEMPERATURE .....		$110^{\circ}C$ typ.
STORAGE TEMPERATURE RANGE.....		$-55^{\circ}C$ TO $+105^{\circ}C$
CASE MATERIAL .....		Aluminium
DIMENSIONS .....		2,28x2,40x0.50 INCHES ( $57.9 \times 61.0 \times 12.7mm$ )

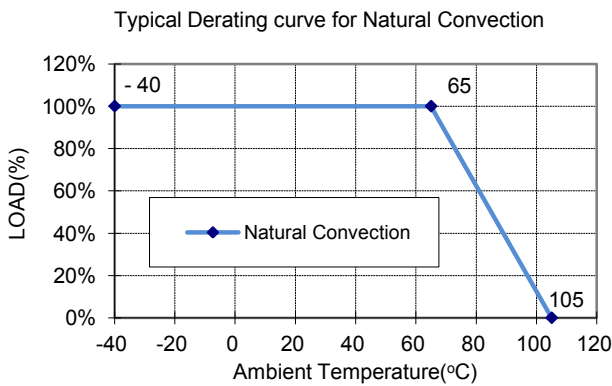
#### NOTE:

1. LINE REGULATION: Measured From High Line To Low Line
2. LOAD REGULATION: Measured From Full Load To Zero Load

### MECHANICAL SPECIFICATIONS

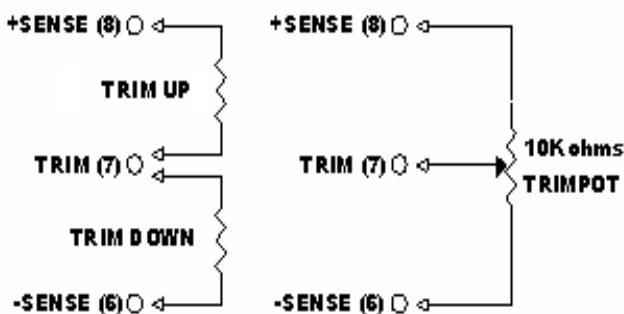


### DERATING CURVE



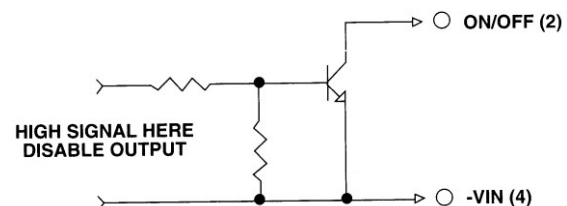
Full Load Operation up to  $T_a = 65^\circ\text{C}$  with Heatsink MC310 at Natural Convection

### External Output TRIM



### REMOTE ON/OFF

Logic Compatibility  
 Modul ON > 3.5V or Open Circuit  
 Module OFF < 1.2 Vdc



Technische Änderungen vorbehalten / Technical changes reserved

R1408