

- **4:1 Input Range**
- **Efficiency to 93%**
- **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.
TP100WE-24S3.3	9 – 36 V	3.3 VDC	25 A	200 mA	3.94 A	87
TP100WE-24S05	9 – 36 V	5 VDC	20 A	150 mA	4.66 A	89
TP100WE-24S12	9 – 36 V	12 VDC	8.4 A	200 mA	4.62 A	90
TP100WE-24S15	9 – 36 V	15 VDC	6.7 A	200 mA	4.62 A	90
TP100WE-24S24	9 – 36 V	24 VDC	4.2 A	100 mA	4.76 A	89
TP100WE-24S48	9 – 36 V	48 VDC	2.1 A	100 mA	4.76 A	89
TP100WE-48S3.3	18 – 75 V	3.3 VDC	25 A	130 mA	1.96 A	88
TP100WE-48S05	18 – 75 V	5 VDC	20 A	130 mA	2.28 A	92
TP100WE-48S12	18 – 75 V	12 VDC	8.4 A	100 mA	2.26 A	93
TP100WE-48S15	18 – 75 V	15 VDC	6.7 A	100 mA	2.26 A	92
TP100WE-48S24	18 – 75 V	24 VDC	4.2 A	100 mA	2.32 A	91
TP100WE-48S48	18 – 75 V	48 VDC	2.1 A	100 mA	2.32 A	90

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

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		10ms typ.

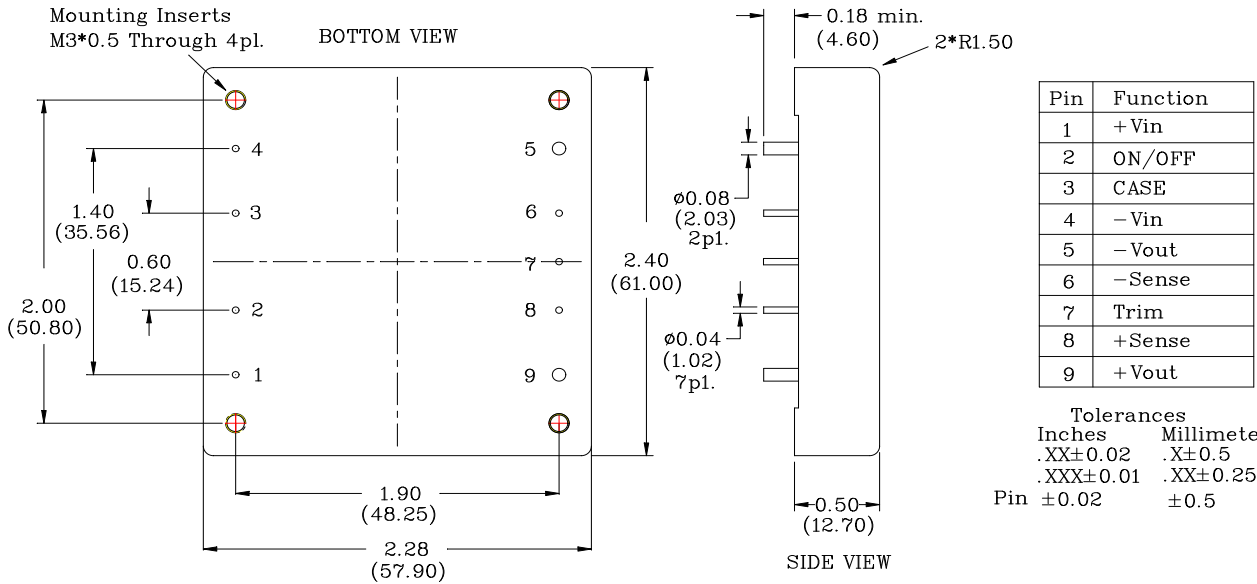
GENERAL SPECIFICATIONS

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 ($57.9 \times 61.0 \times 12.7mm$)

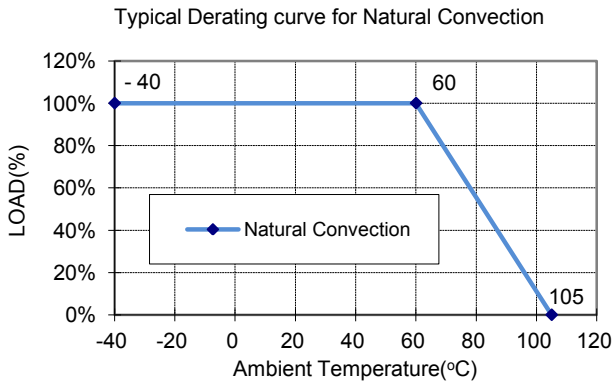
NOTE:

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

MECHANICAL SPECIFICATIONS

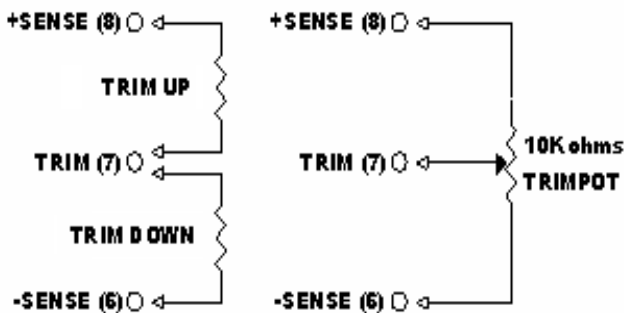


DERATING CURVE



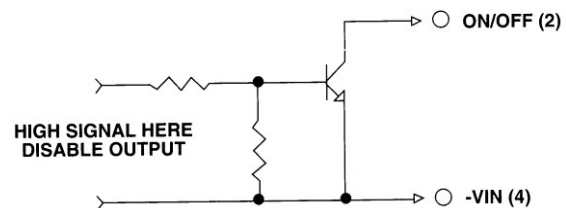
Full Load Operation up to $T_a = 60^\circ\text{C}$ with Heatsink MC310 at Natural Convection

External Output TRIM



REMOTE ON/OFF

Logic Compatibility Open collector TTL refer to -Input
 Modul ON > 3.5V or Open Circuit
 Modul OFF < 1.2 Vdc



Technische Änderungen vorbehalten / Technical changes reserved

R1408