

High Density DC-DC Modules

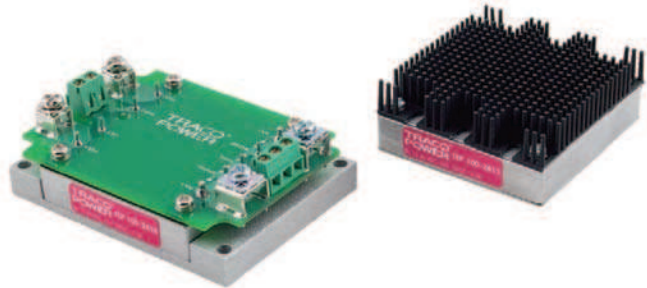


TEP100 Series, 100 Watt

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Features

- High power density
- Wide 2:1 input voltage range
- Very high efficiency up to 93%
- Soft start, Reverse Input Protection
- Adjustable Output Voltage
- Shielded metal case with aluminium baseplate
- Optional adapter for screw terminal connections



(models pictured with chassis mount adapter and optional heatsink)

Electrical Specification

Output Voltage Adjustment	+10% / -20% by external resistor
Conducted EMI	EN 55022 class A, FCC level A (with filter)
Over Current Protection	110-140% of Iout max.
Over Voltage Protection	115-130% of Vout nom.
Short Circuit Protection	Continuous, automatic recovery
Reverse input protection	Parallel diode
Operating Temperature Range	-40°C to +75°C with heatsink (derating applies)
Temperature Coefficient	±0.02%/K
Thermal protection	shutdown at 115°C
I/O Isolation test voltage	2250VDC (basic insulation)
Safety Approvals	cUL/UL 60950-1, IEC/EN 60950-1
Casing	shielded metal case with aluminium baseplate
Remote On/Off	shutdown input for low input current (3mA) in standby operation

Output Voltage and Current Ratings

MODEL	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	RIPPLE & NOISE	LINE REG.	LOAD REG.	EFF.
TEP 100-1210		3.3VDC	25A	75mV pk-pk max.	0.2%	0.3%	90%
TEP 100-1211		5.0VDC	20A	75mV pk-pk max.	0.2%	0.3%	91%
TEP 100-1212		12VDC	8.4A	100mV pk-pk max.	0.2%	0.3%	91%
TEP 100-1213	9 - 18V	15VDC	6.7A	100mV pk-pk max.	0.2%	0.3%	91%
TEP 100-1215		24VDC	4.2A	200mV pk-pk max.	0.2%	0.3%	90%
TEP 100-1216		28VDC	3.6A	200mV pk-pk max.	0.2%	0.3%	90%
TEP 100-1218		48VDC	2.1A	300mV pk-pk max.	0.2%	0.3%	90%
TEP 100-2410		3.3VDC	25A	75mV pk-pk max.	0.2%	0.3%	91%
TEP 100-2411		5.0VDC	20A	75mV pk-pk max.	0.2%	0.3%	93%
TEP 100-2412		12VDC	8.4A	100mV pk-pk max.	0.2%	0.3%	93%
TEP 100-2413	18 - 36V	15VDC	6.7A	100mV pk-pk max.	0.2%	0.3%	93%
TEP 100-2415		24VDC	4.2A	200mV pk-pk max.	0.2%	0.3%	92%
TEP 100-2416		28VDC	3.6A	200mV pk-pk max.	0.2%	0.3%	92%
TEP 100-2418		48VDC	2.1A	300mV pk-pk max.	0.2%	0.3%	92%
TEP 100-4810		3.3VDC	25A	75mV pk-pk max.	0.2%	0.3%	91%
TEP 100-4811		5.0VDC	20A	75mV pk-pk max.	0.2%	0.3%	93%
TEP 100-4812		12VDC	8.4A	100mV pk-pk max.	0.2%	0.3%	93%
TEP 100-4813	36 - 75V	15VDC	6.7A	100mV pk-pk max.	0.2%	0.3%	93%
TEP 100-4815		24VDC	4.2A	200mV pk-pk max.	0.2%	0.3%	92%
TEP 100-4816		28VDC	3.6A	200mV pk-pk max.	0.2%	0.3%	92%
TEP 100-4818		48VDC	2.1A	300mV pk-pk max.	0.2%	0.3%	92%

Options

Heatsink: order code TSP-HS1 (separate order)

Chassis mount adapter: add suffix -CM*

Chassis mount adapter with EMI filter: add suffix -CMF*

*shipped assembled with converter module

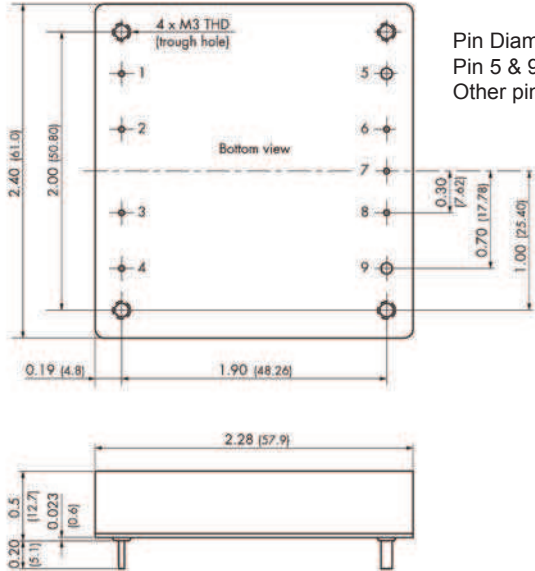
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Mechanical and Connection Details

TEP100 Module

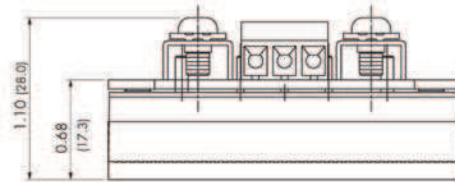


Pin Diameters
Pin 5 & 9: 0.08 (2.0)
Other pins: 0.04 (1.0)

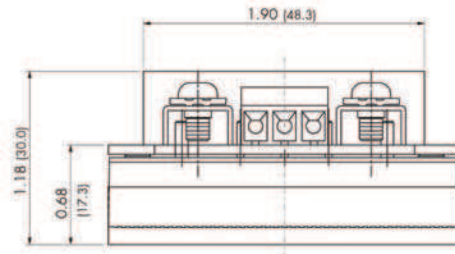
Pin	Function
1	-Vin (GND)
2	Case
3	Remote On/Off
4	+Vin (Vcc)
5	-Vout
6	-Sense *
7	Trim
8	+Sense *
9	+Vout

* Sense pins must be connected at either the load or module

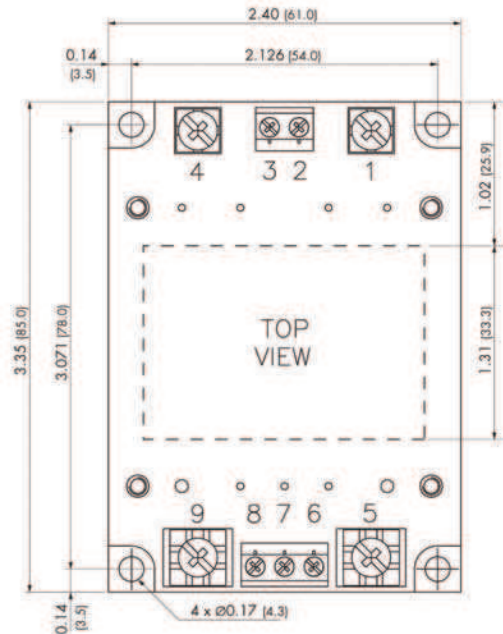
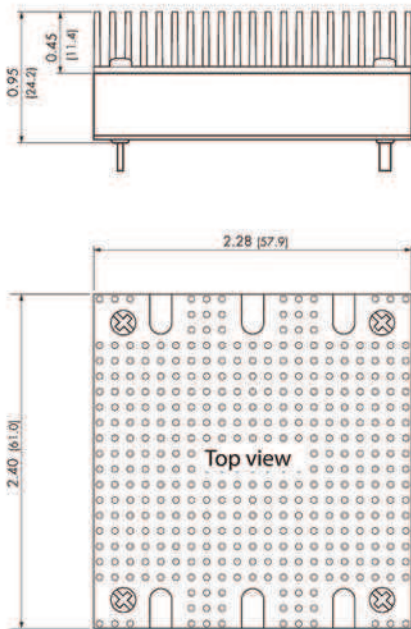
Suffix -CM: Chassis Mount Adaptor



Suffix -CMF: Chassis Mount Adaptor with EMI Filter



Order Code: TEP-HS1 (shown with heatsink mounted)



Dimensions in Inches (mm)
Tolerances: ± 0.02 (± 0.5)
Pin Pitch Tolerances: ± 0.01 (± 0.25)
Mounting Hole Pitch Tolerances: ± 0.01 (± 0.25)

NOTE:
Heatsinks supplied as separate items
Adaptors are supplied factory fitted to module and can not be supplied as a separate item