

DC-DC Converters

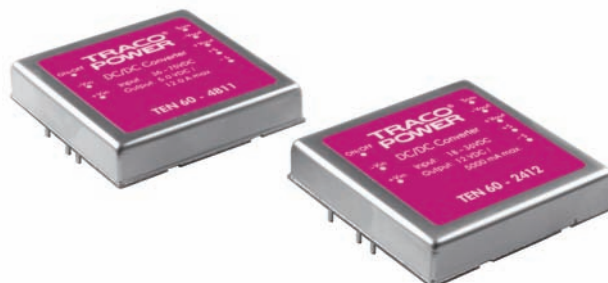
**POWER
SOLVE**

TEN60 Series, 60 Watt

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Features

- Wide 2:1 input range
- High efficiency up to 90%
- I/O isolation 1500VDC
- Operating temperature range -40°C to +75°C
- Short circuit protection
- Adjustable output voltages
- Remote On/Off
- High power density in a 50.8 x 50.8 x 10.2 mm Metal package



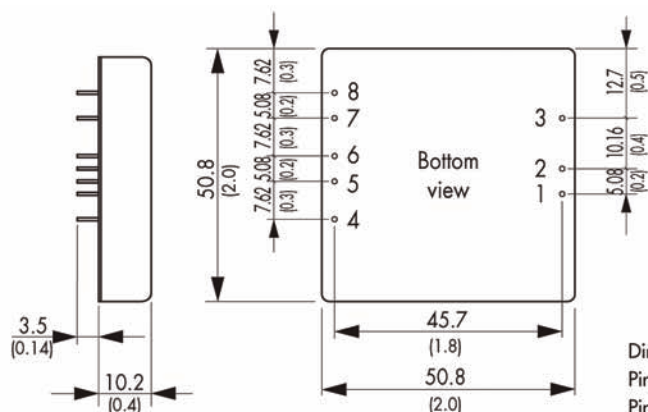
Electrical Specification

Output Voltage Adjustment	±10% by external resistor
Conducted EMI	EN55022 class A & FCC level A (with external capacitor)
Short Circuit Protection	continuous, automatic recovery
Operating Temperature Range	-40°C to +75°C (derate at 2.0°C above 50°C)
Thermal protection	Shutdown at 120°C
I/O Isolation test voltage	1500VDC (basic insulation)
Safety Approvals	cUL/UL 60950-1, IEC/EN 60950-1
Casing	metal, 6-side shielded with insulated baseplate
Remote On/Off	Shutdown input for low input current (2.5mA) in standby operation

Output Voltage and Current Ratings

MODEL	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	RIPPLE & NOISE	LINE REG.	LOAD REG.	EFF.
TEN60-2410	18 - 36V	3.3VDC	14000mA	75mV pk-pk max.	0.2%	0.5%	89%
TEN60-2411		5VDC	12000mA	75mV pk-pk max.	0.2%	0.5%	90%
TEN60-2412		12VDC	5000mA	100mV pk-pk max.	0.2%	0.5%	90%
TEN60-2413		15VDC	4000mA	100mV pk-pk max.	0.2%	0.5%	90%
TEN60-4810	36 - 75V	3.3VDC	14000mA	75mV pk-pk max.	0.2%	0.5%	89%
TEN60-4811		5VDC	12000mA	75mV pk-pk max.	0.2%	0.5%	90%
TEN60-4812		12VDC	5000mA	100mV pk-pk max.	0.2%	0.5%	90%
TEN60-4813		15VDC	4000mA	100mV pk-pk max.	0.2%	0.5%	90%

Mechanical and Connection Details



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

Dimensions in [mm], () = Inch
Pin diameter: 1.0 ±0.05 (0.02 ±0.002)
Pin pitch tolerances: ±0.35 (±0.014)
Case tolerances: ±0.5 (±0.02)