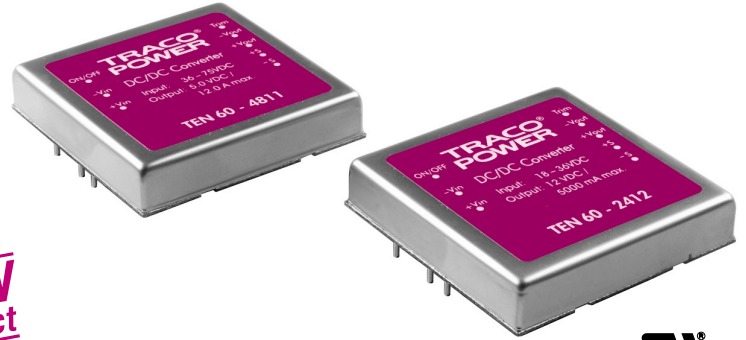


# DC/DC Converters

## TEN 60 Series, 60 Watt

- ◆ Highest Power Density in 51x51x10 mm Metal Package
- ◆ Wide 2:1 Input Range
- ◆ Very high Efficiency up to 91 %
- ◆ Operating Temperature Range -40 °C to +85 °C
- ◆ Under- / Over-Voltage Lockout
- ◆ I/O Isolation 1500 VDC
- ◆ Short Circuit Protection
- ◆ Remote On/Off
- ◆ Adjustable Output Voltage



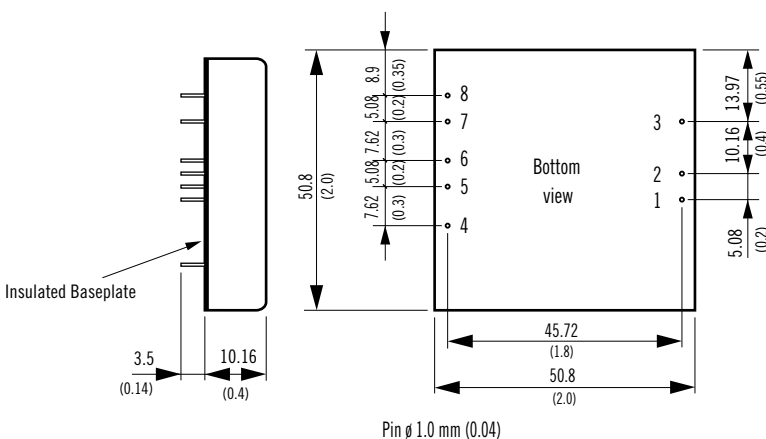
**NEW Product**



### Models

Order code	Input voltage	Output voltage	Output current max.
TEN 60-2410	18 – 36 VDC	3.3 VDC	14'000 mA
TEN 60-2411		5 VDC	12'000 mA
TEN 60-2412		12 VDC	5'000 mA
TEN 60-2413		15 VDC	4'000 mA
TEN 60-4810	36 – 75 VDC	3.3 VDC	14'000 mA
TEN 60-4811		5 VDC	12'000 mA
TEN 60-4812		12 VDC	5'000 mA
TEN 60-4813		15 VDC	4'000 mA

- Line regulation:** ±0.2 % max.
- Load regulation:** ±0.5 % max.
- Output voltage adjustment:** - ±10 % (by external resistor)
- Ripple & Noise:**
  - 3.3 / 5 VDC output models: <50 mVpk-pk (20 MHz BW)
  - all other output models: <75 mVpk-pk (20 MHz BW)
- Conducted EMI:** EN 55022, class A and FCC, level A (with external capacitor)
- Short circuit protection:** continuous, automatic recovery
- Efficiency:** 90 % typ.
- Operating temperature range:** -40 °C ... +85 °C  
above 50 °C derating 2 %/K
- I/O isolation voltage:** 1500 VDC (basic insulation)
- Safety standards / approvals:** cUL /UL 60950-1, IEC/EN 60950-1
- Case:** metal, 6-side shielded with insulated baseplate
- Remote On/Off:** shutdown input for low input current (2.5 mA) in standby operation



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