

DC/DC Converters

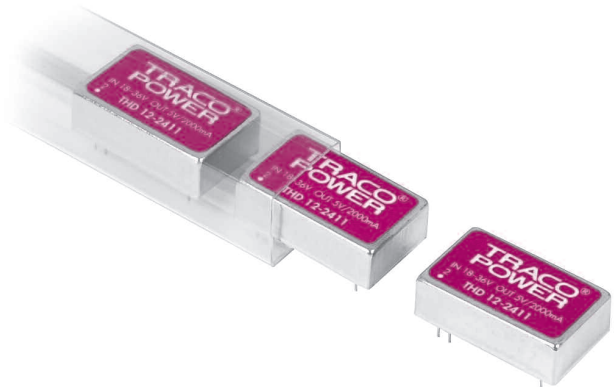
High Power Density

**POWER
SOLVE**

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THD 12 Series, 12 Watt

- = Highest Power Density in DIL-24 Package
- = Wide 2:1 Input Range
- = Very high Efficiency up to 88%
- = Operating Temperature Range -40°C to $+85^{\circ}\text{C}$
- = I/O-Isolation 1500 VDC
- = Undervoltage Lockout
- = Short Circuit Protection
- = Input Filter to meet EN 55022, Class A
- = Remote On/Off
- = Industry Standard Pinout



Line regulation:	$\pm 0.5\%$ max.
Load regulation:	- Single output models: $\pm 1.0\%$ max. - Dual output models: $\pm 1.0\%$ max.
Ripple & Noise:	< 85 mVpk-pk (20MHz BW)
Conducted EMI:	EN 55022 class A and FCC level A (internal filter)
Short circuit protection:	continuous, automatic recovery
Efficiency:	86% typ.
Operating temperature range:	-40°C ... $+85^{\circ}\text{C}$ above 60°C derating $2.5\%/^{\circ}\text{C}$
I/O isolation voltage:	1'500 VDC
Safety standards / approvals:	cUL/UL 60950, IEC/EN 60950
Case:	metal, 6-side shielded, with insulated baseplate
Remote On/Off:	shutdown input for low current (2.5mA) in standby operation

Models			
Order Code	Input voltage	Output voltage	Output current max.
THD 12-1209	9 - 18 VDC	2.5 VDC	3500 mA
THD 12-1210		3.3 VDC	3500 mA
THD 12-1211		5.1 VDC	2400 mA
THD 12-1212		12 VDC	1000 mA
THD 12-1222		± 12 VDC	± 500 mA
THD 12-1223		± 15 VDC	± 400 mA
THD 12-2409	18 - 36 VDC	2.5 VDC	3500 mA
THD 12-2410		3.3 VDC	3500 mA
THD 12-2411		5.1 VDC	2400 mA
THD 12-2412		12 VDC	1000 mA
THD 12-2422		± 12 VDC	± 500 mA
THD 12-2423		± 15 VDC	± 400 mA
THD 12-4809	36 - 75 VDC	2.5 VDC	3500 mA
THD 12-4810		3.3 VDC	3500 mA
THD 12-4811		5.1 VDC	2400 mA
THD 12-4812		12 VDC	1000 mA
THD 12-4822		± 12 VDC	± 500 mA
THD 12-4823		± 15 VDC	± 400 mA

Pin-Out		
Pin	Single Output	Dual Output
1	Remote On/Off	Remote On/Off
2	- Vin (GND)	- Vin (GND)
3	- Vin (GND)	- Vin (GND)
9	No con.	Common
11	No con.	- Vout
14	+ Vout	+ Vout
16	- Vout	Common
22	+ Vin (Vcc)	+ Vin (Vcc)
23	+ Vin (Vcc)	+ Vin (Vcc)

