

DC-DC Converters

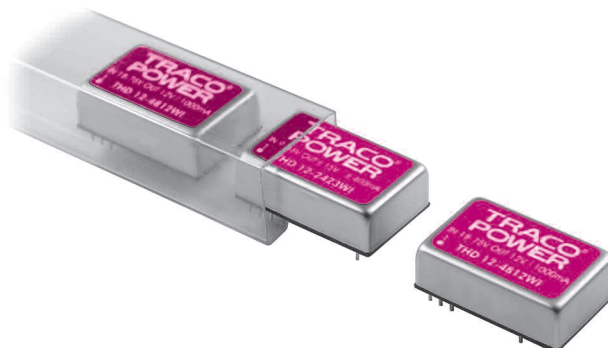


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THD 12WI Series 12 Watt

Features

- Highest Power Density in DIP-24 Metal Package
- Ultrawide 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



Electrical Specification

Line regulation	$\pm 0.2\%$ max.
Load regulation	- Single output models: $\pm 0.5\%$ 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 (with external capacitor)
Short circuit protection	continuous, automatic recovery
Efficiency	86% typ.
Operating temperature range	-40°C ... $+85^{\circ}\text{C}$ above 65°C derating $2.5\%/^{\circ}\text{C}$
I/O isolation voltage	1500 VDC
Safety standards	cUL/UL 60950-1, IEC/EN 60950-1
Case	metal, 6-side shielded, with insulated baseplate
Remote On/Off	shutdown input for low current (2.5mA) in standby operation

Pin Connection

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)

MODEL	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT MAX.
THD 12-2410WI	9 – 36 VDC	3.3 VDC	3500 mA
THD 12-2411WI		5.1 VDC	2400 mA
THD 12-2412WI		12 VDC	1000 mA
THD 12-2413WI		15 VDC	800 mA
THD 12-2421WI		± 5 VDC	± 1200 mA
THD 12-2422WI	18 – 75 VDC	± 12 VDC	± 500 mA
THD 12-2423WI		± 15 VDC	± 400 mA
THD 12-4810WI		3.3 VDC	3500 mA
THD 12-4811WI		5.1 VDC	2400 mA
THD 12-4812WI		12 VDC	1000 mA
THD 12-4813WI		15 VDC	800 mA
THD 12-4821WI		± 5 VDC	± 1200 mA
THD 12-4822WI		± 12 VDC	± 500 mA
THD 12-4823WI		± 15 VDC	± 400 mA

