

THM-WI Series ▶ 6 & 10W Reinforced Insulation DC/DC Converter



Full datasheet in progress

- ▶ Ultra wide 4:1 input voltage range
- ▶ I/O isolation voltage 5000 VAC reinforced insulation
- ▶ Rated for working voltage 250 VAC
- ▶ Compact DIP-24 package
- ▶ Medical safety to IEC/EN60601-1 3rd edition, 2 x MOPP
- ▶ Very high efficiency up to 89%
- ▶ Input filter to meet EN 55022, class A

Specifications

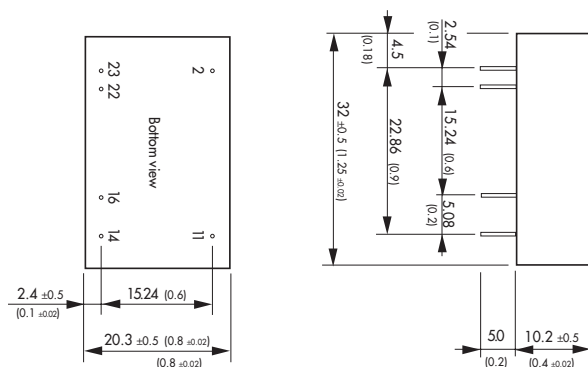
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|--|--|
| Line regulation | 0.5% max. |
| Load regulation | single output models: 0.2% max. dual output models: 1% max. |
| Conducted EMI | EN 55022, class A (internal filter) |
| Efficiency | 88% typ. |
| Operating temperature | -40 °C to +85 °C (with derating, tba) |
| Safety standards / approvals (pending) | IEC/EN 60601-1 3rd edition, 2 x MOPP, UL 60601-1 |
| I/O isolation voltage | 5000 VAC (60 sec.), reinforced insulation rated for 250 VAC working voltage, clearance/creepage 8 mm |
| I/O isolation capacitance | 17 pF max. |
| Casing | plastic (UL 94V-0 rated) |
| Full datasheet | www.tracopower.com/products/thm6wi.pdf www.tracopower.com/products/thm10wi.pdf |

6 Watt models

| THM 6WI series | | | |
|----------------|---------------|----------------|---------------------|
| Order code | Input voltage | Output voltage | Output current max. |
| THM 6-0510WI | | 3.3 VDC | 1800 mA |
| THM 6-0511WI | | 5 VDC | 1200 mA |
| THM 6-0512WI | | 12 VDC | 500 mA |
| THM 6-0513WI | 4.5-9 VDC | 15 VDC | 400 mA |
| THM 6-0515WI | | 24 VDC | 250 mA |
| THM 6-0521WI | | ± 5 VDC | ± 600 mA |
| THM 6-0522WI | | ± 12 VDC | ± 250 mA |
| THM 6-0523WI | | ± 15 VDC | ± 200 mA |
| THM 6-2410WI | | 3.3 VDC | 1800 mA |
| THM 6-2411WI | | 5 VDC | 1200 mA |
| THM 6-2412WI | | 12 VDC | 500 mA |
| THM 6-2413WI | 9-36 VDC | 15 VDC | 400 mA |
| THM 6-2415WI | | 24 VDC | 250 mA |
| THM 6-2421WI | | ± 5 VDC | ± 600 mA |
| THM 6-2422WI | | ± 12 VDC | ± 250 mA |
| THM 6-2423WI | | ± 15 VDC | ± 200 mA |
| THM 6-4810WI | | 3.3 VDC | 1800 mA |
| THM 6-4811WI | | 5 VDC | 1200 mA |
| THM 6-4812WI | | 12 VDC | 500 mA |
| THM 6-4813WI | 18-75 VDC | 15 VDC | 400 mA |
| THM 6-4815WI | | 24 VDC | 250 mA |
| THM 6-4821WI | | ± 5 VDC | ± 600 mA |
| THM 6-4822WI | | ± 12 VDC | ± 250 mA |
| THM 6-4823WI | | ± 15 VDC | ± 200 mA |

10 Watt models

| THM 10WI series | | | |
|-----------------|---------------|----------------|---------------------|
| Order code | Input voltage | Output voltage | Output current max. |
| THM 10-0510WI | | 3.3 VDC | 2500 mA |
| THM 10-0511WI | | 5 VDC | 2000 mA |
| THM 10-0512WI | | 12 VDC | 830 mA |
| THM 10-0513WI | 4.5-9 VDC | 15 VDC | 670 mA |
| THM 10-0515WI | | 24 VDC | 416 mA |
| THM 10-0521WI | | ± 5 VDC | ± 1000 mA |
| THM 10-0522WI | | ± 12 VDC | ± 416 mA |
| THM 10-0523WI | | ± 15 VDC | ± 333 mA |
| THM 10-2410WI | | 3.3 VDC | 2500 mA |
| THM 10-2411WI | | 5 VDC | 2000 mA |
| THM 10-2412WI | | 12 VDC | 830 mA |
| THM 10-2413WI | 9-36 VDC | 15 VDC | 670 mA |
| THM 10-2415WI | | 24 VDC | 416 mA |
| THM 10-2421WI | | ± 5 VDC | ± 1000 mA |
| THM 10-2422WI | | ± 12 VDC | ± 416 mA |
| THM 10-2423WI | | ± 15 VDC | ± 333 mA |
| THM 10-4810WI | | 3.3 VDC | 2500 mA |
| THM 10-4811WI | | 5 VDC | 2000 mA |
| THM 10-4812WI | | 12 VDC | 830 mA |
| THM 10-4813WI | 18-75 VDC | 15 VDC | 670 mA |
| THM 10-4815WI | | 24 VDC | 333 mA |
| THM 10-4821WI | | ± 5 VDC | ± 1000 mA |
| THM 10-4822WI | | ± 12 VDC | ± 416 mA |
| THM 10-4823WI | | ± 15 VDC | ± 333 mA |



Pin-Out

| Pin | Single | Dual |
|-----|-----------|-----------|
| 2 | -Vin(GND) | -Vin(GND) |
| 11 | No con. | -Vout |
| 14 | +Vout | +Vout |
| 16 | -Vout | Common |
| 22 | +Vin(Vcc) | +Vin(Vcc) |
| 23 | +Vin(Vcc) | +Vin(Vcc) |