

# DC-DC Converters

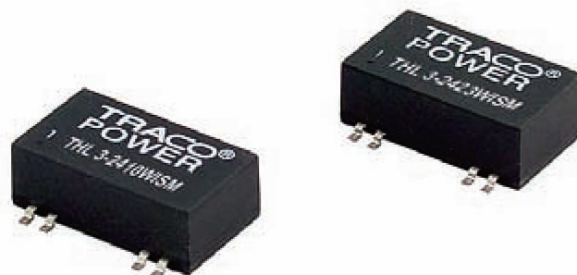
**POWER  
SOLVE**

## THL3WISM Series, 3 Watt

[www.powersolve.co.uk](http://www.powersolve.co.uk)

### Features

- Ultra wide 4:1 input range
- Fully regulated outputs
- I/O isolation 1500VDC
- Operating temperature range -40°C to +85°C
- Input filter to meet EN55022 class A
- Short circuit protection
- Remote ON/OFF



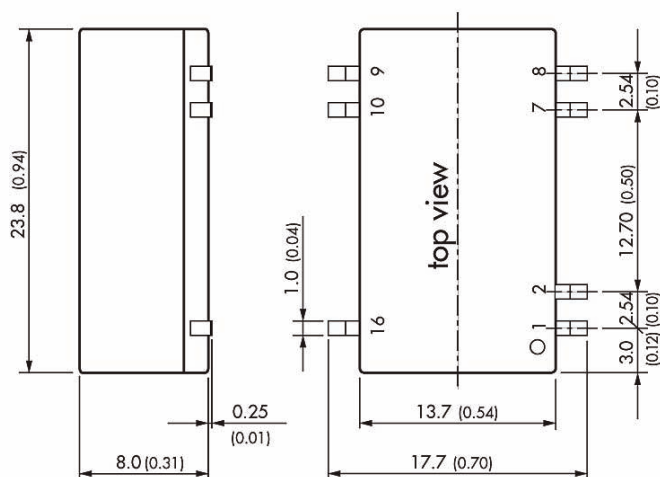
### Electrical Specification

|                             |                                                           |
|-----------------------------|-----------------------------------------------------------|
| Conducted EMI               | EN55022 class A & FCC level A (internal filter)           |
| Short Circuit Protection    | continuous, automatic recovery                            |
| Operating Temperature Range | -40°C to +85°C (derate at 3.5%/°C above 70°C)             |
| I/O Isolation test voltage  | 1500VDC                                                   |
| Safety Approvals            | cUL/UL 60950-1, IEC/EN 60950-1                            |
| Casing                      | epoxy moulded (UL94V-0 rated)                             |
| Remote ON/OFF               | Shutdown input for low current (5mA) in standby operation |

### Output Voltage and Current Ratings

| MODEL         | INPUT VOLTAGE | OUTPUT VOLTAGE | OUTPUT CURRENT | RIPPLE & NOISE  | LINE REG. | LOAD REG. | EFF. (typ.) |
|---------------|---------------|----------------|----------------|-----------------|-----------|-----------|-------------|
| THL3-2410WISM | 9 - 36VDC     | 3.3VDC         | 600mA          | 60mV pk-pk max. | 0.5%      | 0.5%      | 80%         |
| THL3-2411WISM |               | 5VDC           | 600mA          | 60mV pk-pk max. | 0.5%      | 0.5%      | 80%         |
| THL3-2412WISM |               | 12VDC          | 250mA          | 60mV pk-pk max. | 0.5%      | 0.5%      | 80%         |
| THL3-2413WISM |               | 15VDC          | 200mA          | 60mV pk-pk max. | 0.5%      | 0.5%      | 80%         |
| THL3-2421WISM |               | ±5VDC          | ±300mA         | 60mV pk-pk max. | 0.5%      | 1.0%      | 80%         |
| THL3-2422WISM |               | ±12VDC         | ±125mA         | 60mV pk-pk max. | 0.5%      | 1.0%      | 80%         |
| THL3-2423WISM | 18 - 75VDC    | ±15VDC         | ±100mA         | 60mV pk-pk max. | 0.5%      | 1.0%      | 80%         |
| THL3-4810WISM |               | 3.3VDC         | 600mA          | 60mV pk-pk max. | 0.5%      | 0.5%      | 80%         |
| THL3-4811WISM |               | 5VDC           | 600mA          | 60mV pk-pk max. | 0.5%      | 0.5%      | 80%         |
| THL3-4812WISM |               | 12VDC          | 250mA          | 60mV pk-pk max. | 0.5%      | 0.5%      | 80%         |
| THL3-4813WISM |               | 15VDC          | 200mA          | 60mV pk-pk max. | 0.5%      | 0.5%      | 80%         |
| THL3-4821WISM |               | ±5VDC          | ±300mA         | 60mV pk-pk max. | 0.5%      | 1.0%      | 80%         |
| THL3-4822WISM |               | ±12VDC         | ±125mA         | 60mV pk-pk max. | 0.5%      | 1.0%      | 80%         |
| THL3-4823WISM |               | ±15VDC         | ±100mA         | 60mV pk-pk max. | 0.5%      | 1.0%      | 80%         |

### Mechanical and Connection Details



Dimensions in mm (inches)

| Pin | Single Output | Dual Output   |
|-----|---------------|---------------|
| 1   | -Vin (GND)    | -Vin (GND)    |
| 2   | Remote ON/OFF | Remote ON/OFF |
| 7   | No conn.      | No conn.      |
| 8   | No conn.      | Common        |
| 9   | +Vout         | +Vout         |
| 10  | -Vout         | -Vout         |
| 16  | +Vin (Vcc)    | +Vin (Vcc)    |