

DC-DC Converters

**POWER
SOLVE**

THL20WI Series, 20 Watt

www.powersolve.co.uk

Features

- High power density in a 25.4 x 25.4 x 10.2mm metal package
- Ultra wide 4:1 input range
- High efficiency up to 90%
- I/O isolation 1500VDC
- Operating temperature range -40°C to +75°C
- Input filter to meet EN55022 class A
- Industry standard pin out
- Short circuit protection, Adjustable output voltage & Remote ON/OFF



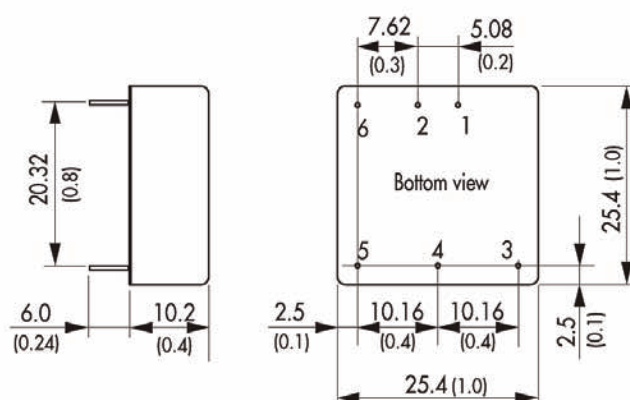
Electrical Specification

Conducted EMI	EN55022 class A & FCC level A (internal filter)
Output Voltage Adjustment	±10% by external resistor (single output models only)
Short Circuit Protection	continuous, automatic recovery
Operating Temperature Range	-40°C to +75°C (derate at 2.5%/°C above 60°C)
I/O Isolation test voltage	1500VDC
Safety Approvals	cUL/UL 60950-1, IEC/EN 60950-1
Casing	metal with insulated baseplate
Remote ON/OFF	Shutdown input for low current in standby operation

Output Voltage and Current Ratings

MODEL	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	RIPPLE & NOISE	LINE REG.	LOAD REG.	EFF. (typ.)
THL20-2410WI	9 - 36VDC	3.3VDC	4500mA	100mV pk-pk max.	1.0%	1.0%	89%
THL20-2411WI		5.1VDC	4000mA	100mV pk-pk max.	1.0%	1.0%	89%
THL20-2412WI		12VDC	1670mA	100mV pk-pk max.	1.0%	1.0%	89%
THL20-2413WI		15VDC	1340mA	100mV pk-pk max.	1.0%	1.0%	89%
THL20-2422WI		±12VDC	±835mA	100mV pk-pk max.	1.0%	2.0%	89%
THL20-2423WI		±15VDC	±670mA	100mV pk-pk max.	1.0%	2.0%	89%
THL20-4810WI	18 - 75VDC	3.3VDC	4500mA	100mV pk-pk max.	1.0%	1.0%	89%
THL20-4811WI		5.1VDC	4000mA	100mV pk-pk max.	1.0%	1.0%	89%
THL20-4812WI		12VDC	1670mA	100mV pk-pk max.	1.0%	1.0%	89%
THL20-4813WI		15VDC	1340mA	100mV pk-pk max.	1.0%	1.0%	89%
THL20-4822WI		±12VDC	±835mA	100mV pk-pk max.	1.0%	2.0%	89%
THL20-4823WI		±15VDC	±670mA	100mV pk-pk max.	1.0%	2.0%	89%

Mechanical and Connection Details



Dimensions in mm (inches)

Pin	Single Output	Dual Output
1	+Vin (Vcc)	+Vin (Vcc)
2	-Vin (GND)	-Vin (GND)
3	+Vout	+Vout
4	Trim	Common
5	-Vout	-Vout
6	Remote ON/OFF	Remote ON/OFF