

DC-DC Converters

**POWER
SOLVE**

THN20WI Series, 20 Watt

www.powersolve.co.uk

Features

- Smallest encapsulated 20W converter
- 25.4 x 25.4 x 10mm metal package
- Ultra wide 4:1 input range
- Very high efficiency up to 90%
- Adjustable output voltage & remote On/Off
- Short circuit protection



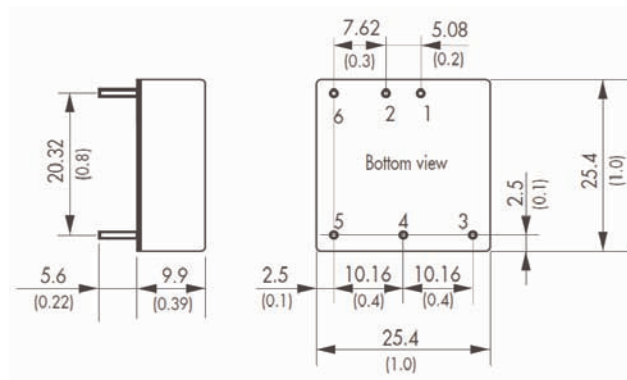
Electrical Specification

Output Voltage Adjustment	±10% by external resistor (single output models only)
Conducted EMI	EN 55022 class A, FCC level A (without external components)
Short Circuit Protection	continuous, automatic recovery
Operating Temperature Range	-40°C to +75°C(+85°C with heatsink) (derate at 2.0%/°C above 55°C)
I/O Isolation test voltage	1500VDC
Safety Standards	cUL/UL 60950-1, IEC/EN 60950-1, IEC60950-1
Casing	nickel coated copper with non-conductive FR4 baseplate
Remote On/Off	shutdown input for low input current (1.5mA) in standby operation On: 3-15VDC or open circuit, Off: <1.2VDC or short circuit

Output Voltage and Current Ratings

MODEL	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	RIPPLE & NOISE	LINE REG.	LOAD REG.	EFF.
THN20-2410WI		3.3VDC	4500mA	75mV pk-pk max.	0.2%		86%
THN20-2411WI		5VDC	4000mA	75mV pk-pk max.	0.2%	0.2%	89%
THN20-2412WI	9 - 36V	12VDC	1670mA	100mV pk-pk max.	0.2%	0.2%	89%
THN20-2413WI	(24V nom.)	15VDC	1330mA	100mV pk-pk max.	0.2%	0.2%	89%
THN20-2422WI		±12VDC	±833mA	100mV pk-pk max.	0.5%	1.0%	89%
THN20-2423WI		±15VDC	±667mA	100mV pk-pk max.	0.5%	1.0%	89%
THN20-4810WI		3.3VDC	4500mA	75mV pk-pk max.	0.2%	0.2%	86%
THN20-4811WI		5VDC	4000mA	75mV pk-pk max.	0.2%	0.2%	89%
THN20-4812WI	18 - 75V	12VDC	1670mA	100mV pk-pk max.	0.2%	0.2%	89%
THN20-4813WI	(48V nom.)	15VDC	1330mA	100mV pk-pk max.	0.2%	0.2%	90%
THN20-4822WI		±12VDC	±833mA	100mV pk-pk max.	0.5%	1.0%	89%
THN20-4823WI		±15VDC	±677mA	100mV pk-pk max.	0.5%	1.0%	89%

Mechanical and Connection Details



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

Heatsink Option:

THN-HS1

Heatsink supplied fitted to converter. Contact sales for details.

