

DC-DC Converters

**POWER
SOLVE**

TEN40N Series, 40 Watt

www.powersolve.co.uk

Features

- Wide 2:1 input range
- High efficiency up to 92%
- I/O isolation 1500VDC
- Operating temperature range -40°C to +71°C
- Short circuit protection
- Adjustable output voltages and Remote On/Off
- High power density in a 50.8 x 25.4 x 10.2 mm metal package



Electrical Specification

Output Voltage Adjustment	±10% by external resistor (single output models)
Conducted EMI	EN55022 class A & FCC level A (internal filter)
Short Circuit Protection	continuous (hiccup mode), automatic recovery
Operating Temperature Range	-40°C to +71°C (derate at 2.5%/k above 55°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 input current (2.5mA) in standby operation

Output Voltage and Current Ratings

MODEL	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	RIPPLE & NOISE	LINE REG.	LOAD REG.	EFF.
TEN40-1210N	9 - 18VDC	3.3VDC	8000mA	100mV pk-pk max.	0.5%	0.5%	89%
TEN40-1211N		5VDC	8000mA	100mV pk-pk max.	0.5%	0.5%	89%
TEN40-1212N		12VDC	3333mA	150mV pk-pk max.	0.5%	0.5%	89%
TEN40-1213N		15VDC	2666mA	150mV pk-pk max.	0.5%	0.5%	90%
TEN40-1222N		±12VDC	±1666mA	150mV pk-pk max.	0.5%	2.0%	88%
TEN40-1223N	18 - 36VDC	±15VDC	±1333mA	150mV pk-pk max.	0.5%	2.0%	88%
TEN40-2410N		3.3VDC	8000mA	100mV pk-pk max.	0.5%	0.5%	90%
TEN40-2411N		5VDC	8000mA	100mV pk-pk max.	0.5%	0.5%	91%
TEN40-2412N		12VDC	3333mA	150mV pk-pk max.	0.5%	0.5%	91%
TEN40-2413N		15VDC	2666mA	150mV pk-pk max.	0.5%	0.5%	91%
TEN40-2422N	36 - 75VDC	±12VDC	±1666mA	150mV pk-pk max.	0.5%	2.0%	89%
TEN40-2423N		±15VDC	±1333mA	150mV pk-pk max.	0.5%	2.0%	89%
TEN40-4810N		3.3VDC	8000mA	100mV pk-pk max.	0.5%	0.5%	90%
TEN40-4811N		5VDC	8000mA	100mV pk-pk max.	0.5%	0.5%	91%
TEN40-4812N		12VDC	3333mA	150mV pk-pk max.	0.5%	0.5%	92%
TEN40-4813N		15VDC	2666mA	150mV pk-pk max.	0.5%	0.5%	92%
TEN40-4822N		±12VDC	±1666mA	150mV pk-pk max.	0.5%	2.0%	89%
TEN40-4823N		±15VDC	±1333mA	150mV pk-pk max.	0.5%	2.0%	89%

Output Voltage Adjustment



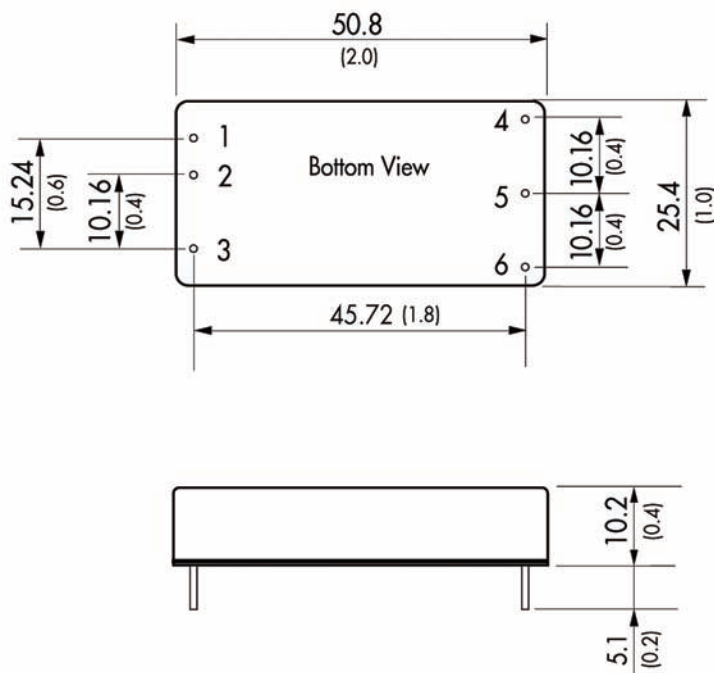
Ru (KΩ)					Rd (KΩ)				
Output	3.3V	5V	12V	15V	Output	3.3V	5V	12V	15V
+5%	7.32	4.64	42.2	48.7	-5%	8.06	5.62	46.4	64.9
+10%	0.47	0.59	3.01	3.24	-10%	0.34	0.68	1.18	5.23
approximate values					approximate values				

DC-DC Converters

**POWER
SOLVE**

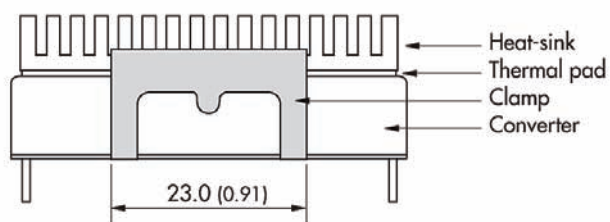
www.powersolve.co.uk

Mechanical and Connection Details



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

Heatsink (optional) TEN-HS4

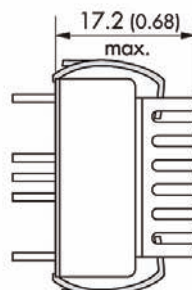
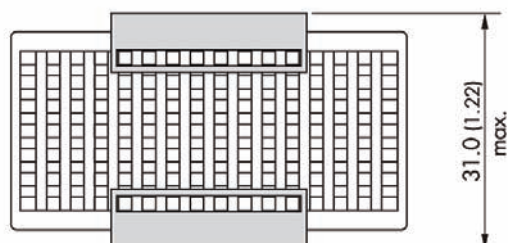


Order Code:

TEN-HS4
(inc. thermal pad & 2 clamps)

Material:
Finish:
Weight:

Aluminium
Anodic treatment (black)
17g (0.62oz) without converter



Notes:

Before attaching the heatsink, the product label must be removed for optimal performance.
For volume orders the heatsink can be supplied fitted to converter, contact sales for information.