

DC-DC Converters

**POWER
SOLVE**

TEN30WIN Series, 30 Watt

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Features

- Smallest encapsulated 30W converter
- 50.8 x 25.4 x 10mm metal package
- Ultra wide 4:1 input range
- Single, dual and triple output models
- Very high efficiency up to 89%
- 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 (with external capacitor)
Short Circuit Protection	continuous, automatic recovery
Operating Temperature Range	-40°C to +75°C (derate at 3.3%/°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 input current (2.5mA) in standby operation

Output Voltage and Current Ratings

MODEL	INPUT VOLTAGE	OUTPUT 1 Vout / Iout max.	OUTPUT 2 Vout / Iout max.	RIPPLE & NOISE	LINE REG.	LOAD REG.	EFF.
TEN30-2407WIN	9 - 36V	1.5VDC / 8.5A		75mV pk-pk max.	0.2%	0.5%	80%
TEN30-2409WIN		2.5VDC / 8.0A		75mV pk-pk max.	0.2%	0.5%	83%
TEN30-2410WIN		3.3VDC / 7.5A		75mV pk-pk max.	0.2%	0.5%	86%
TEN30-2411WIN		5.1VDC / 6.0A		75mV pk-pk max.	0.2%	0.5%	88%
TEN30-2412WIN		12VDC / 2.5A		75mV pk-pk max.	0.2%	0.5%	89%
TEN30-2413WIN		15VDC / 2.0A		75mV pk-pk max.	0.2%	0.5%	89%
TEN30-2421WIN		+5VDC / 3.0A	-5VDC / 3.0A	100mV pk-pk max.	0.2%	1.0%	88%
TEN30-2422WIN		+12VDC / 1.25A	-12VDC / 1.25A	100mV pk-pk max.	0.2%	1.0%	87%
TEN30-2423WIN		+15VDC / 1.0A	-15VDC / 1.0A	100mV pk-pk max.	0.2%	1.0%	87%
TEN30-2433WIN		3.3VDC / 5.0A	±12VDC / ±0.42A	100mV pk-pk max.	1.0%	1% OP1/5% OP2	86%
TEN30-2434WIN	18 - 75V	3.3VDC / 5.0A	±15VDC / ±0.33A	100mV pk-pk max.	1.0%	1% OP1/5% OP2	86%
TEN30-2431WIN		5VDC / 4.0A	±12VDC / ±0.42A	100mV pk-pk max.	1.0%	1% OP1/5% OP2	88%
TEN30-2432WIN		5VDC / 4.0A	±15VDC / ±0.33A	100mV pk-pk max.	1.0%	1% OP1/5% OP2	88%
TEN30-4807WIN		1.5VDC / 8.5A		75mV pk-pk max.	0.2%	0.5%	80%
TEN30-4809WIN		2.5VDC / 8.0A		75mV pk-pk max.	0.2%	0.5%	84%
TEN30-4810WIN		3.3VDC / 7.5A		75mV pk-pk max.	0.2%	0.5%	86%
TEN30-4811WIN		5.1VDC / 6.0A		75mV pk-pk max.	0.2%	0.5%	88%
TEN30-4812WIN		12VDC / 2.5A		75mV pk-pk max.	0.2%	0.5%	90%
TEN30-4813WIN		15VDC / 2.0A		75mV pk-pk max.	0.2%	0.5%	91%
TEN30-4821WIN		+5VDC / 3.0A	-5VDC / 3.0A	100mV pk-pk max.	0.2%	1.0%	88%
TEN30-4822WIN		+12VDC / 1.25A	-12VDC / 1.25A	100mV pk-pk max.	0.2%	1.0%	88%
TEN30-4823WIN		+15VDC / 1.0A	-15VDC / 1.0A	100mV pk-pk max.	0.2%	1.0%	88%
TEN30-4833WIN		3.3VDC / 5.0A	±12VDC / ±0.42A	100mV pk-pk max.	1.0%	1% OP1/5% OP2	86%
TEN30-4834WIN		3.3VDC / 5.0A	±15VDC / ±0.33A	100mV pk-pk max.	1.0%	1% OP1/5% OP2	86%
TEN30-4831WIN		5VDC / 4.0A	±12VDC / ±0.42A	100mV pk-pk max.	1.0%	1% OP1/5% OP2	88%
TEN30-4832WIN		5VDC / 4.0A	±15VDC / ±0.33A	100mV pk-pk max.	1.0%	1% OP1/5% OP2	88%

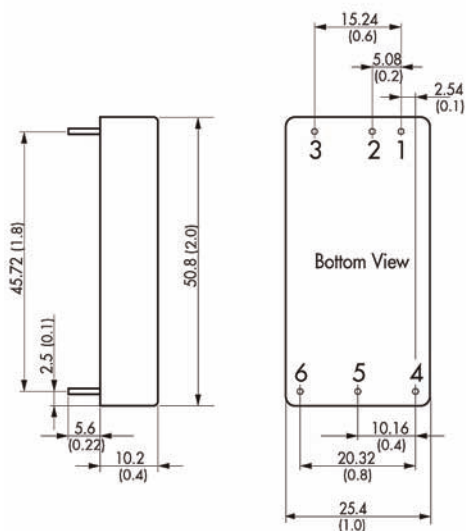
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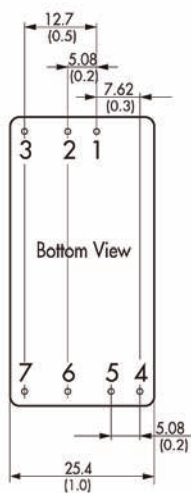
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Mechanical and Connection Details

Single- and dual
output models



Triple output
models



Pin	Single Output	Dual Output	Triple Output
1	+Vin (Vcc)	+Vin (Vcc)	+Vin (Vcc)
2	-Vin (GND)	-Vin (GND)	-Vin (GND)
3	Remote On/Off	Remote On/Off	Remote On/Off
4	Vout 1	Vout 1	+Vout 2
5	Common	Common	-Vout 2
6	Trim	Vout 2	Common 1/2
7	No pin	No pin	Vout 1

Dimensions in [mm], () = Inch

Pin diameter: 1.0 ±0.1 (0.04 ±0.004)

Pin pitch tolerances: ±0.25 (±0.01)

Case tolerances: ±0.5 (±0.02)