

TDK DC to DC Converters, DC to AC Inverters

800mW

40E D ■ 8821248 0004993 1 ■ TDKA

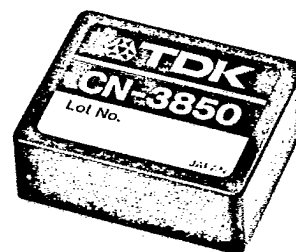
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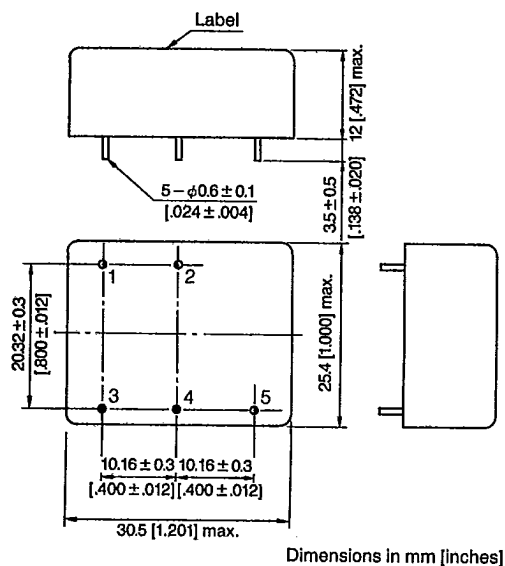
CN SERIES DC TO DC CONVERTERS

FEATURES

- High stability ($\pm 5\%$).
- Low-profile — Can be installed in a 3/4 inch rack.
(height 12mm [.472 inches])
- High efficiency (60 to 85%).
- External components are unnecessary.



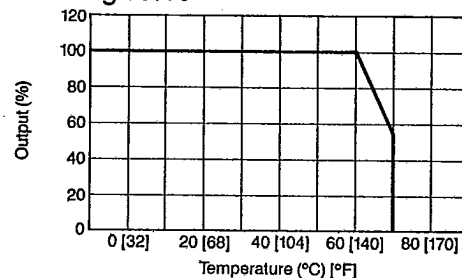
SHAPES AND DIMENSIONS



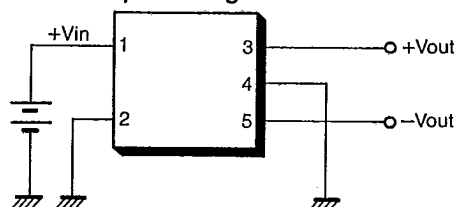
TEMPERATURE AND HUMIDITY RANGES

Operating temperature	-10 to +70°C [+14 to +158°F] (at 60°C [140°F] or above, refer to derating curve.)
Storage temperature	-20 to +85°C [-4 to +185°F]
Humidity	95% max. (Maximum wet bulb temperature: 38°C [100.4°F])

Derating curve



Terminal pin configuration



Terminal pin No.

1	+Vin
2	Common in
3	+Vout
4	Common out
5	-Vout

• Terminal pins 2 and 4 are connected internally.

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ELECTRICAL CHARACTERISTICS

Part No.	Input voltage (V)	Output* ¹ voltage (V)	Output current (mA)	Ripple and noise voltage* ² (%p-p)	Output voltage stability depending on:			Efficiency* ² (%) typ.	Weight (g)
					Input (%) typ.	Load (%) typ.	Temp. (%/°C) typ.		
CN-3801	+5 ± 10%	+12 ± 5%	7 to 70	1.0	0.3	1.5	0.01	80	13
CN-3802	+5 ± 10%	+15 ± 5%	6 to 60	1.0					
CN-3803	+12 ± 10%	+5 ± 5%	16 to 160	1.0					
CN-3804	+24 ± 10%	+5 ± 5%	16 to 160	1.0	0.1	1.8	0.02	85	
CN-3850	+5 ± 10%	− 5 ± 5%	16 to 160	1.0					
CN-3851	+5 ± 10%	− 12 ± 5%	7 to 70	1.0					
CN-3852	+5 ± 10%	− 15 ± 5%	6 to 60	1.0					
CN-3853	+12 ± 10%	− 5 ± 5%	16 to 160	1.0					
CN-3854	+12 ± 10%	− 12 ± 5%	7 to 70	1.0					
CN-3855	+12 ± 10%	− 15 ± 5%	6 to 60	1.0					
CN-3856	+24 ± 10%	− 5 ± 5%	16 to 160	1.0					
CN-3857	+24 ± 10%	− 12 ± 5%	7 to 7	1.0					
CN-3858	+24 ± 10%	− 15 ± 5%	6 to 60	1.0	0.5	0.5	0.02	65	

*1 Tolerance of output voltage includes fluctuations in the input (± 10%), load (10 to 100%) and temperature (-10 to +70°C [14 to 158°F]). Ripple and noise voltage are included.

*2 Measured with a 50MHz bandwidth.

*3 Maximum load at typical input voltage.