



- 60 - 160VDC Input
- IEC 61373 Shock and Vibration
- Base plate Cooled
- Full Power at 100°C base plate
- Five Year Warranty

Key Market Segments & Applications

- Railway Applications
- Power Plants

CN-A Series

30W to 100W 110VDC Input
Quarter Brick Railway DC-DC Converters

CN-A Features and Benefits

Features

- Small Size
- Quarter Brick Footprint
- Full Power from -40 to +100°C

Benefits

- Less PCB space used
- Industry Standard Pinout
- No Derating required

Specifications

ITEMS	MODELS	CN30A110, CN50A110, CN100A110 See model selector			
		5V	12V	15V	24V
Nominal Output Voltage	VDC	5V	12V	15V	24V
Input Voltage Range	VDC	60 - 160VDC			
Input Current	A	0.34 - 2.16A (model dependant)			
Output Voltage Adjustment	VDC	4.5 - 6	10.8 - 13.2	13.5 - 16.5	21.6 - 26.4
Ripple & Noise (max) pk-pk	mV	100	150	150	240
Line Regulation (max)	mV	20	48	60	96
Load Regulation (max)	mV	40	96	120	192
Overcurrent Protection	%	105 - 140%			
Overvoltage Protection	%	125 - 145% (Cycle input or remote on/off to reset)			
Remote Sense	-	Yes			
Remote On/Off	-	Yes; Low = ON, Open = OFF			
Operating Temperature	°C	-40°C to +100°C Baseplate			
Storage Temperature	°C	-40°C to +100°C			
Temperature Coefficient	%/°C	0.02%/°C			
Humidity (non condensing)	%RH	5 - 95% RH Operating and Non Operating			
Cooling	-	Conduction (See Installation Manual for heatsink selection)			
Withstand Voltage	VAC	Input to Baseplate: 1.5kVAC; Input to Output 3.0kVAC for 1 min.; Output to Baseplate: 500VAC for 1 min			
Isolation Resistance	-	>100M at 25C and 70%RH, Output to Base plate 500VDC			
Vibration	-	Non Operating, 10-55Hz (sweep for 1 min.) Amplitude 0.825mm constant (Max 49 m/s ²) X,Y,Z 1 hour each IEC61373 - Category 1, Grade B			
Shock	-	196.1m/s ² , IEC61373 - Category 1, Grade B			
Safety Agency Certifications	-	UL60950-1, CSA60950-1, EN60950-1, CE LVD			
Weight (Typ)	g	100			
Size (WxHxD)	mm	36.8 x 12.7 x 57.9 See outline drawing			
Warranty	yrs	5 Years			

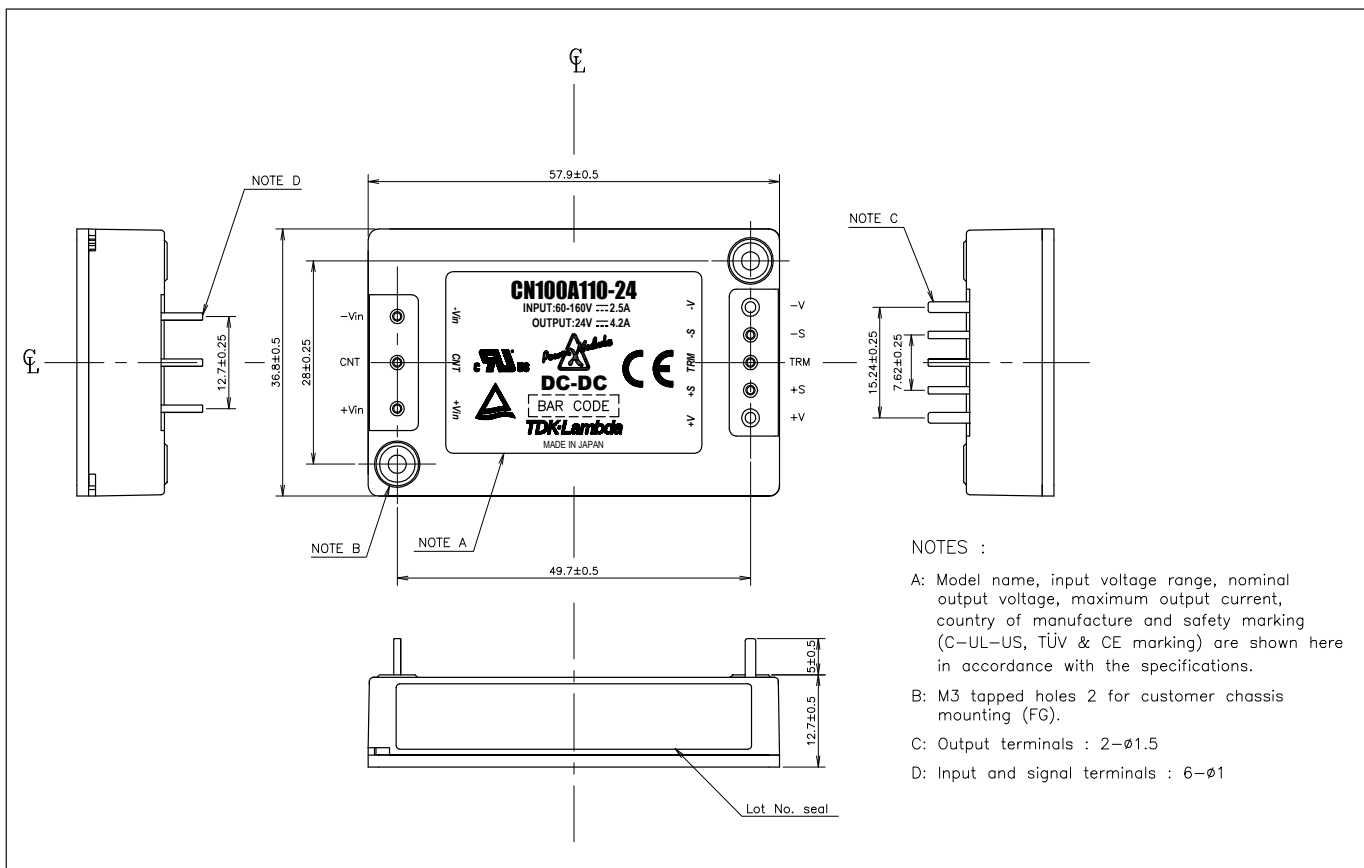
Notes: See Installation Manual for full details, test methods of parameters and application notes



Model Selector

Model	Voltage (V)	Output Current (A)	Maximum Power (W)	Input Current (A)	Efficiency (%) (100% load, 110VDC In)
CN30A110-5	5	6.0	30.0	0.34	83
CN50A110-5	5	10.0	50.0	0.55	84
CN100A110-5	5	20.0	100.0	1.08	85
CN30A110-12	12	2.5	30.0	0.34	84
CN50A110-12	12	4.2	50.4	0.55	86
CN100A110-12	12	8.4	100.8	1.08	88
CN30A110-15	15	2.0	30.0	0.34	84
CN50A110-15	15	3.4	51.0	0.55	86
CN100A110-15	15	6.7	100.5	1.08	88
CN30A110-24	24	1.3	31.2	0.34	84
CN50A110-24	24	2.1	50.4	0.55	86
CN100A110-24	24	4.2	100.8	1.08	88

Outline Drawing CN30A-CN100A



For full data and drawings please visit www.emea.tdk-lambda.com/www/cn-a



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