

CN-A SERIES

Rail DC / DC Converters: 30~200 Watts



Features

- Wide input: 60 ~ 160vdc
- IEC 61373 Shock & Vibration
- Base plate cooled
- Full power at +100°C base plate temperature
- Parallel operation for 200W modules
- Quarter / Half brick industry standard package options
- -40°C operation
- Fully isolated output 3000vac
- International safety approvals
- Overvoltage protection
- Overload & Short circuit protection

General Specifications

Input Voltage	60 ~ 160Vdc			
Input current	0.34 ~ 2.16A (model dependent)			
Output Voltage	Refer to table			
Output Power	30 ~ 200 watts			
External Trim	Refer to table, via external trim network			
Efficiency	Typically 88% (model dependent)			
Ripple & Noise mV pk-pk	5V 100mV	12V 150mV	15V 150mV	24V 240mV
Line Regulation	5V 20mV	12V 48mV	15V 60mV	24V 96mV
Load Regulation	5V 40mV	12V 96mV	15V 120mV	24V 192mV
Protection	Overcurrent protection set at 105~140% Overvoltage protection (cycle input or remote on/off to reset)			
Remote Sense	Yes			
Remote ON/OFF	Short = On, Open = Off			
Parallel Operation	CN200A only			
Operating Temp.	-40°C to +100°C base plate			
Temperature Coeff.	0.02% per °C			
Humidity	5-95% RH non condensing			
Cooling	Conduction via base plate (refer to manual)			
Isolation	Input-Output: 3kVAC, Input-Baseplate: 1.5Kvac Output-Baseplate: 500VAC			
Safety	UL60950-1, EN60950-1, CSA60950-1			
Vibration	IEC61373 Cat 1, Grade B			
Size	CN30A ~ CN100A: 58 x 37 x 12.7mm CN200A: 61 x 58 x 12.7mm			
Weight	CN30A ~ CN100A: 70g CN200A: 150g			

Description

The **CN** series is "building Block" power module, that allows system design Engineers to integrate this module onto their own pcb.

This provides complete flexibility in system profile design and in addition reducing cost dramatically compare to a stand-alone dc/dc converter.

They are suitable for both rail rolling stock and fixed installations, enabling customers to design cost-effective EN50155 compliant systems.

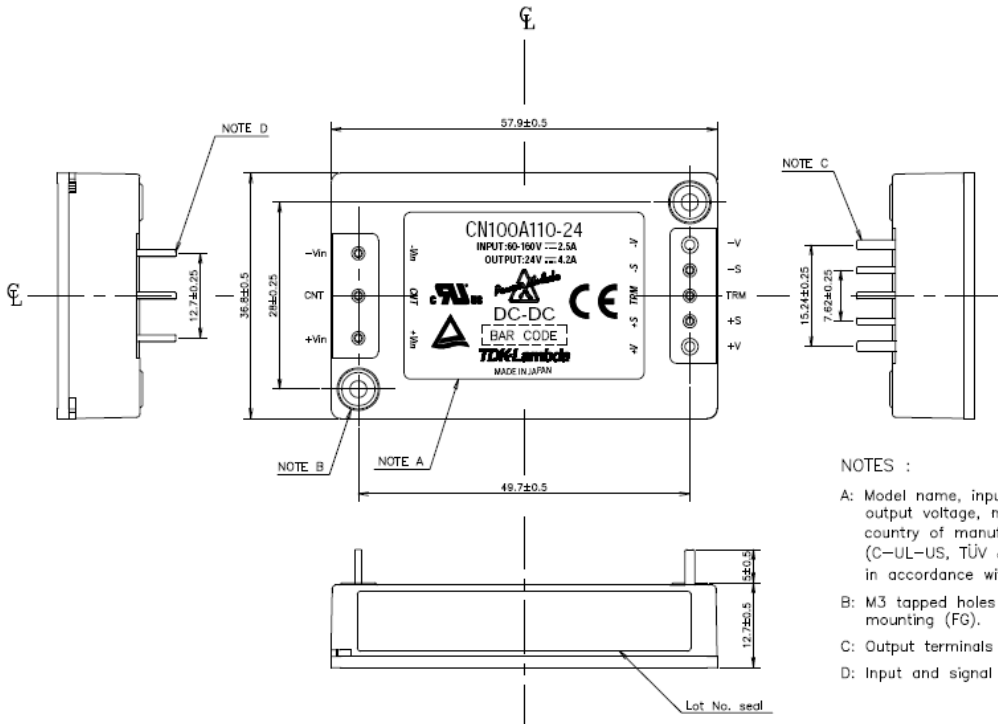
Designed for harsh environments, the **CN-A Series** meets the stringent shock and vibration requirements of IEC61373 Category 1 Class B. In addition, all models accept the wide-range DC input commonly found in railway applications, which allows operation from any voltage between 60 and 160V. These base-plate-cooled power supplies, with industry standard quarter-brick or half-brick pinout, provide exceptionally high, true useable power from -40 to +100°C, without derating.

- **Manual & Full Application notes on CN-A series, visit our website**

Model	Output		Voltage Range	Power W
	V	A		
CN30A110-5	5V	6A	4.5 ~ 6V	30W
CN50A110-5	5V	10A	4.5 ~ 6V	50W
CN100A110-5	5V	20A	4.5 ~ 6V	100W
CN200A110-5	5V	40A	4.5 ~ 6V	200W
CN30A110-12	12V	2.5A	10.8 ~13.2V	30W
CN50A110-12	12V	4.2A	10.8 ~13.2V	50W
CN100A110-12	12V	8.4A	10.8 ~13.2V	100W
CN200A110-12	12V	16.7A	10.8 ~13.2V	200W
CN30A110-15	15V	2.0A	13.5~16.5V	30W
CN50A110-15	15V	3.4A	13.5~16.5V	50W
CN100A110-15	15V	6.7A	13.5~16.5V	100W
CN200A110-15	15V	13.4A	13.5~16.5V	200W
CN30A110-24	24V	1.3A	21.6~26.4V	30W
CN50A110-24	24V	2.1A	21.6~26.4V	50W
CN100A110-24	24V	4.2A	21.6~26.4V	100W
CN200A110-24	24V	8.4A	21.6~26.4V	200W

CN-A SERIES

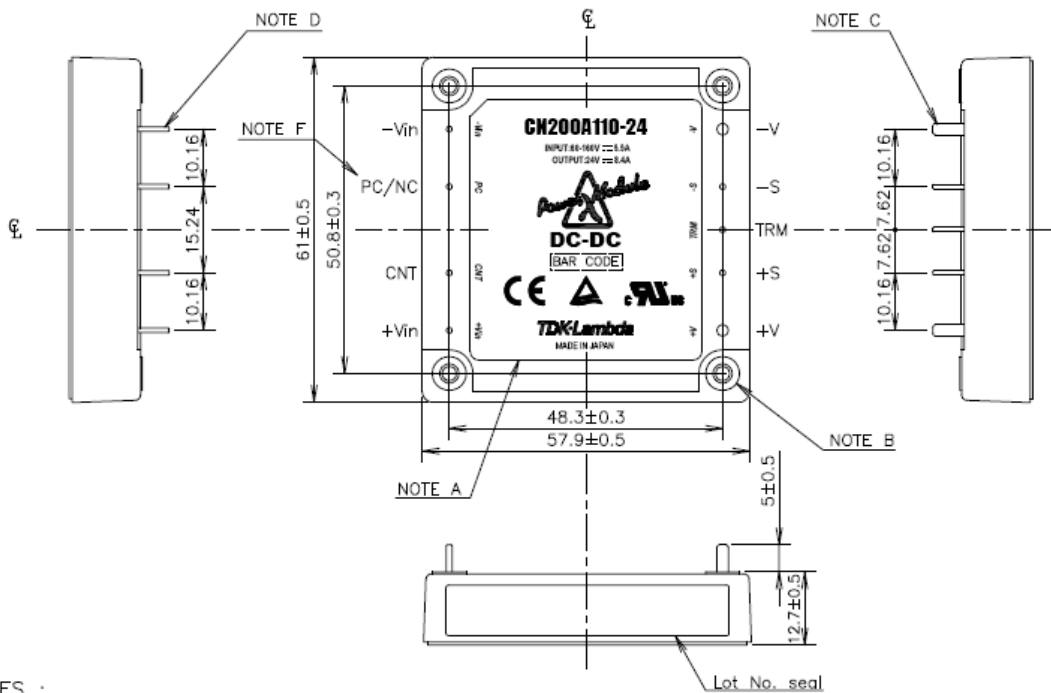
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CN30A-100A

NOTES :

- A: Model name, input voltage range, nominal output voltage, maximum output current, country of manufacture and safety marking (C-UL-US, TÜV & CE marking) are shown here in accordance with the specifications.
- B: M3 tapped holes 2 for customer chassis mounting (FG).
- C: Output terminals : 2- ϕ 1.5
- D: Input and signal terminals : 6- ϕ 1



CN200A

NOTES :

- A: Model name, input voltage range, nominal output voltage, maximum output current, country of manufacture and safety marking (C-UL-US, TÜV & CE marking) are shown here in accordance with the specifications.
- B: M3 tapped holes 4 for customer chassis mounting (FG).
- C: Output terminals : 2- ϕ 2.0
- D: Input and signal terminals : 7- ϕ 1
- E: Unless otherwise specified dimensional tolerance : ± 0.25
- F: 5V output model : NC
12V, 15V, 24V output models : PC

(unit : mm)	
MODEL NAME	CN200A110
TDK-Lambda	
C257-02-01A	