

7.2. Voltage Attenuator



Features

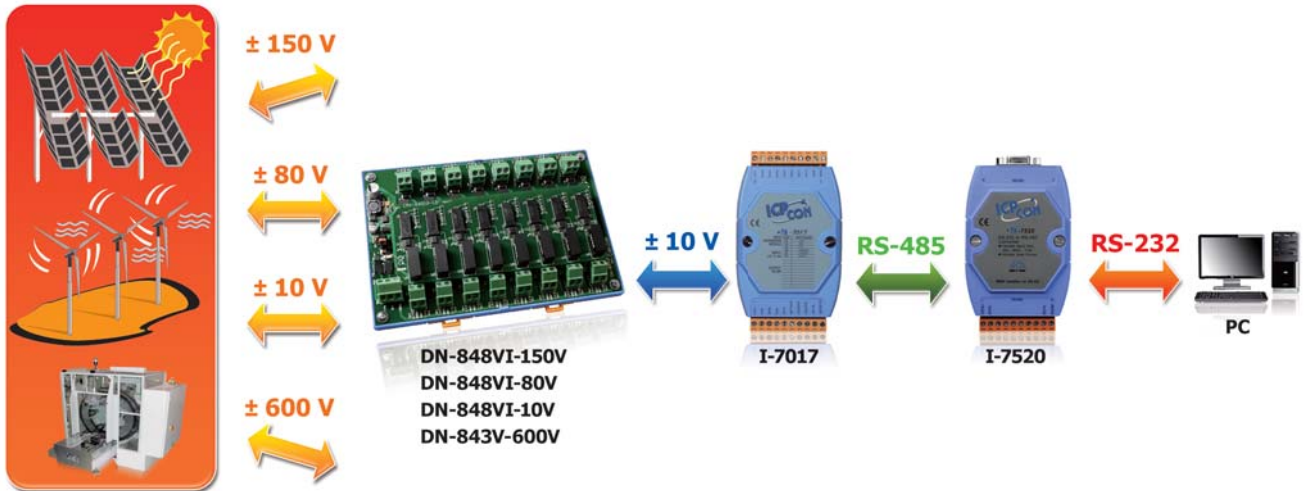
- AC/DC Source Input
- High Voltage Input Measurement
- Linear Attenuation Ratio
- High Input Impedance
- Channel to Channel Isolation for DN-848VI-10V, DN-848VI-80V and DN-848VI-150V
- 4 kV ESD Protection
- 3 kV Surge Protection
- RoHS Compliance
- Operating Temperature: -25 ~ +75°C
- Easily Wire Connection



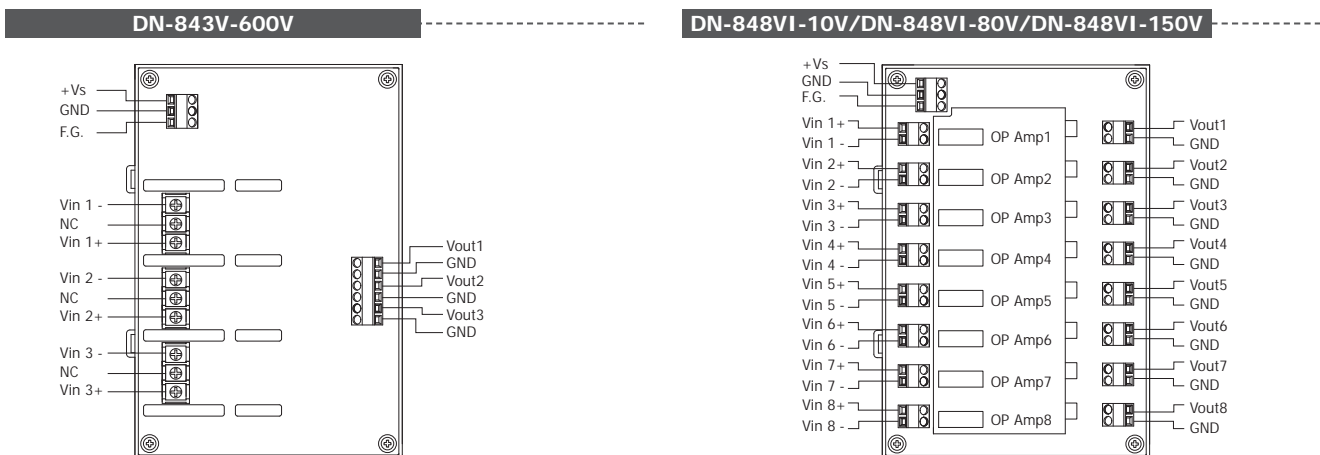
Introduction

The DN-800V series are voltage input attenuator. The maximum input range is from ± 80 V to ± 600 V and can be attenuated to ± 10 V. The "I" version provide 3000 V_{DC} intra-modules isolation and 3000 V_{DC} channel to channel isolation to avoid the noise interference from inputs to outputs or channel to channel. It can be used with the analog input modules such as I-7017 and I-87017 etc. to measure the high voltage.

Applications



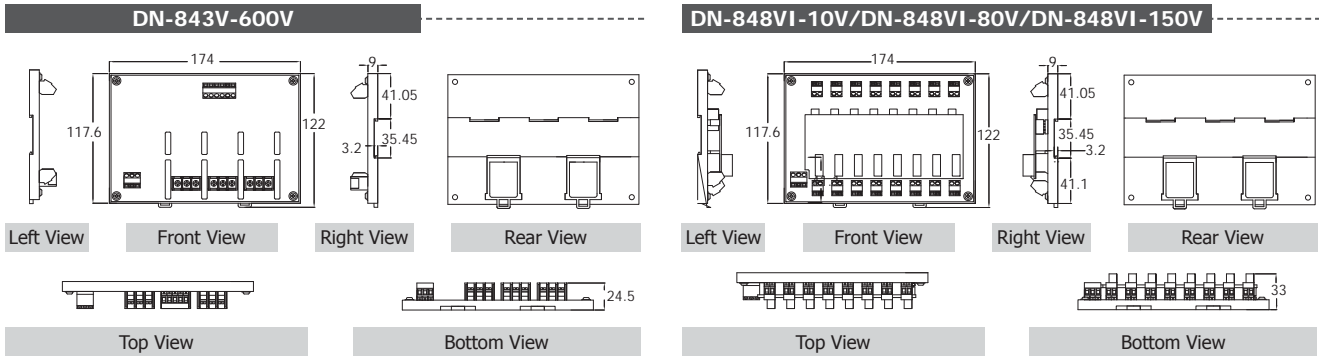
Appearance



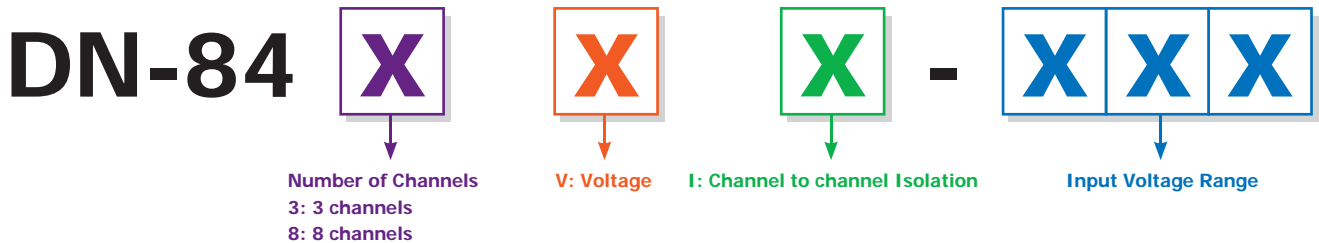
Specifications

Models	DN-848VI-10V	DN-848VI-80V	DN-848VI-150V	DN-843V-600V
General				
Channel	8	8	8	3
Input Type	AC/DC Voltage			
Input Range	+/- 10 V _{pp}	+/- 80 V _{pp}	+/- 150 V _{pp}	+/- 600 V _{pp}
Output Range	+/- 10 V _{pp}			
Accuracy	1% of FSR			
Chanel to Channel Isolation	Yes, 3000 V _{oc}			-
Bandwidth	30 KHz			100 KHz
Input Impedance	> 1 MΩ			
Intra-module Isolation, Input to Output	3000 V _{oc}			-
EMS Protection				
ESD (IEC 61000-4-2)	+/- 4 kV contact for power line, input and output channels , +/- 8 kV air for random point			
Surge (IEC 61000-4-5)	+/- 3 kV for power liner			
Power Input				
Input Range	+10 ~ +30 V _{dc}			
Power Consumption	9.2 W	9.2 W	9.2 W	0.56 W
Mechanical				
Dimensions (W x L x H)	122 mm x 174 mm x 33 mm			122 mm x 174 mm x 24.5 mm
Installation	DIN-Rail Mounting			
Environment				
Operating Temperature	-25 ~ + 75°C			
Storage Temperature	-30 ~ +75°C			
Humidity	10 ~ 90% RH (non-condensing)			

Dimensions (Units: mm)



Selection Guide



Ordering Information

DN-848VI-10V CR	8-channel 10 V Voltage Attenuator (RoHS)
DN-848VI-80V CR	8-channel 80 V Voltage Attenuator (RoHS)
DN-848VI-150V CR	8-channel 150 V Voltage Attenuator (RoHS)
DN-843V-600V CR	3-channel 600 V Voltage Attenuator (RoHS)

Accessories

MDR-20-24 CR	24 V/1 A, 24 W Power Supply with DIN-Rail Mounting (RoHS)
I-7017-G CR	8-channel Analog Input Module (RoHS)
I-87017-G CR	8-channel Analog Input Module (RoHS)