

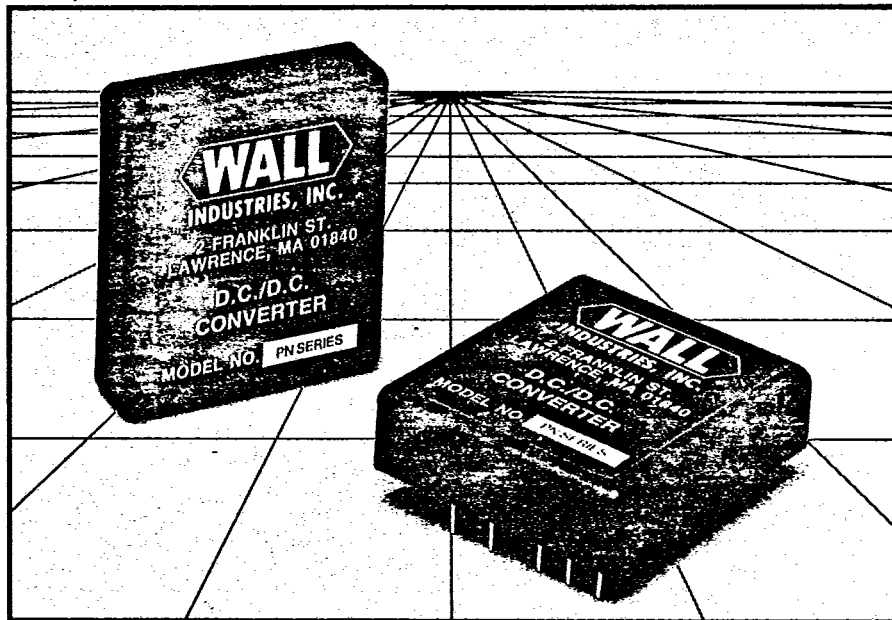
T-57-11

Announcing 48 VDC UL Recognized  
Telecommunications Converters

# 10-Watt DC/DC Converters

UL Recognized  
File No. E105637

**W**all Industries, Inc., is pleased to announce UL recognized 48 VDC input telecommunication converters. Excellent line/load regulation and high I/O isolation (500 VDC) are standard on all models. The PN series is available in single, dual and triple output modules encapsulated in 2.55" x 3.00" x .75" packages.



- UL Recognized 48 VDC Input
- 350,000 Hours MTBF
- 5,12,15,24,28 and 48 Volt Inputs Available
- Single, Dual and Triple Outputs
- Well-Regulated Output Power
- 500 VDC Isolation
- Short-Circuit Protection
- Thermal Shutdown
- Excellent Efficiency

**WALL**®

T-57-11

**SPECIFICATIONS:**

**Size:** 2.55" x 3.00" x 0.75"

**Input Voltages:** 5 VDC (4.5 to 5.5 VDC)  
12 VDC (10 to 14 VDC)  
15 VDC (11 to 19 VDC)  
24 VDC (20 to 28 VDC)  
28 VDC (24 to 32 VDC)  
48 VDC (42 to 56 VDC)

**Output Voltage Tolerance:** ±1.0%

**Output Voltage Balance:** ±0.5% (Dual Output)

**Line Regulation:** ±0.2% on Single Models  
±0.1% on Dual Models  
±0.1% on Triple Models

**Load Regulation:** ±0.2% on Single Models  
±0.1% on Dual Models  
±0.1% on Triple Models

**Ripple:** < 1mV RMS 100 MV P-P

**Efficiency:** 65%

**I/O Isolation:** 500 VDC

**Switching Frequency:** > 20 kHz (min)

**Short-Circuit Protection:** Single - output to common  
Dual - either output to common  
Triple - output to respective common

**(Thermal Shutdown)**

**Storage Temperature:** -55°C to +85°C

**Operating Temperature:** -25°C to +71°C (1\* from case)

**Design Reliability:** 350,000 Hours MTBF

**Case Material:** Black coated copper, non-conductive base

Due to advances in technology, specifications subject to change without notice.

**PN SERIES**

**SINGLE OUTPUT**

INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	MODEL NUMBER
5VDC	5VDC	2000mA	PNS5-5-2000
5VDC	12VDC	1000mA	PNS5-12-1000
5VDC	15VDC	670mA	PNS5-15-670
12VDC	5VDC	2000mA	PNS12-5-2000
12VDC	12VDC	1000mA	PNS12-12-1000
12VDC	15VDC	670mA	PNS12-15-670
24VDC	5VDC	2000mA	PNS24-5-2000
24VDC	12VDC	1000mA	PNS24-12-1000
24VDC	15VDC	670mA	PNS24-15-670
28VDC	5VDC	2000mA	PNS28-5-2000
28VDC	12VDC	1000mA	PNS28-12-1000
28VDC	15VDC	670mA	PNS28-15-670
48VDC	5VDC	2000mA	PNS48-5-2000
48VDC	12VDC	1000mA	PNS48-12-1000
48VDC	15VDC	670mA	PNS48-15-670

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**DUAL OUTPUT**

INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	MODEL NUMBER
5VDC	± 12VDC	± 330mA	PND5-12-330
5VDC	± 15VDC	± 330mA	PND5-15-330
12VDC	± 12VDC	± 330mA	PND12-12-330
12VDC	± 15VDC	± 330mA	PND12-15-330
24VDC	± 12VDC	± 330mA	PND24-12-330
24VDC	± 15VDC	± 330mA	PND24-15-330
28VDC	± 12VDC	± 330mA	PND28-12-330
28VDC	± 15VDC	± 330mA	PND28-15-330
48VDC	± 12VDC	± 330mA	PND48-12-330
48VDC	± 15VDC	± 330mA	PND48-15-330

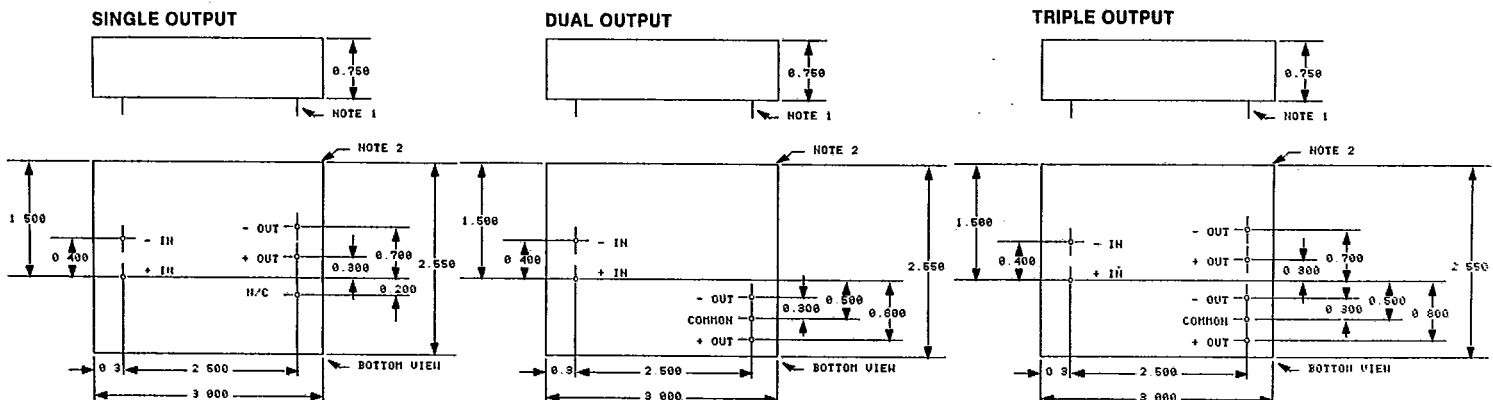
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**TRIPLE OUTPUT**

INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	MODEL NUMBER
5VDC	± 12VDC + 5VDC	± 165mA + 750mA	PNT5-12-165
5VDC	± 15VDC + 5VDC	± 165mA + 750mA	PNT5-15-165
12VDC	± 12VDC + 5VDC	± 165mA + 750mA	PNT12-12-165
12VDC	± 15VDC + 5VDC	± 165mA + 750mA	PNT12-15-165
15VDC	± 12VDC + 5VDC	± 165mA + 750mA	PNT15-12-165
15VDC	± 15VDC + 5VDC	± 165mA + 750mA	PNT15-15-165
24VDC	± 12VDC + 5VDC	± 165mA + 750mA	PNT24-12-165
24VDC	± 15VDC + 5VDC	± 165mA + 750mA	PNT24-15-165
28VDC	± 12VDC + 5VDC	± 165mA + 750mA	PNT28-12-165
28VDC	± 15VDC + 5VDC	± 165mA + 750mA	PNT28-15-165
48VDC	± 12VDC + 5VDC	± 165mA + 750mA	PNT48-12-165
48VDC	± 15VDC + 5VDC	± 165mA + 750mA	PNT48-15-165

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**Case Dimensions - Bottom View**



**NOTE 1:** PC. pins, 0.04x0.22 long (min.)  
**NOTE 2:** All corners on the topside of the unit are rounded.  
**NOTE 3:** Tolerance—pin spacing ±0.005, all others ±0.010