

PD SERIES

up to 100 Watts

SPECIFICATIONS

All specifications apply @ + 25°C ambient unless otherwise noted.

INPUT SPECIFICATIONS

Input Voltage Range	21-60, 36-72, 55-110, 85-200, 170-400VAC
Nominal Input	36, 48, 74, 155, 270 VDC
Input Filter	Pi-Input Filter
Remote ON/OFF Control	Open Collector TTL Compatible

OUTPUT SPECIFICATIONS

Output Current	see table
Voltage Tolerance	± 1%
Output Trim (external)	± 10%
Line Regulation	0.1%
Load Regulation	0.5%
Voltage Stability	will not drift more than 0.1% in 8 hours
Short Circuit Protection	current limiting, thermal shutdown
Over Voltage Protection	self resetting crowbar
Ripple/Noise	1% of Vout
Current Limiting	150%
Output Transient Response	w/in 1% steady state value in 150 mSec for 25% load change

GENERAL SPECIFICATIONS

Efficiency	80% minimum
Isolation Voltage, input to output	500 VDC (min) @ 1µA
Remote Sense	up to 0.3VDC drop in power leads
Switching Frequency	150KHz typical
Turn On Delay	250mSec

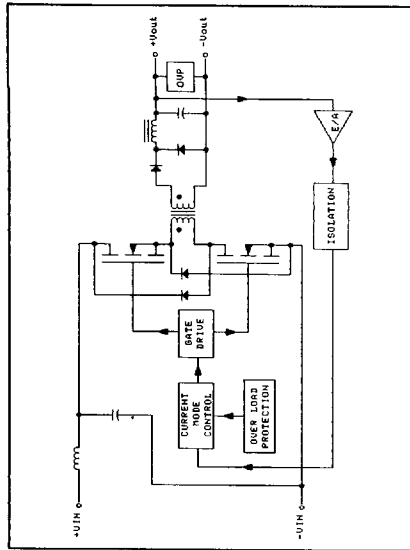
ENVIRONMENTAL SPECIFICATIONS

Humidity	20% - 95% R.H. (non-condensing)
Temperature Coefficient	0.02% per °C
Commercial Operating Temperature	-25 to +85°C baseplate
Commercial Storage Temperature	-55 to +100°C
Industrial Operating Temperature	-40 to +85°C baseplate
Industrial Storage Temperature	-55 to +100°C

PHYSICAL SPECIFICATIONS

Shielding Connections	6-sided shielding
Case Material	Black epoxy coated metal, with aluminum base plate

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



Simplified Schematic - High Voltage Input

The PD Series from Wall Industries

The PD Family of low profile 100 watt DC/DC converters utilizes a combination of through-hole and surface mount technology with wire wound magnetics to offer a premium power source for a variety of applications. These encapsulated converters offer reverse polarity protection, high efficiencies, fixed frequency, overload and over voltage protection.

FEATURES

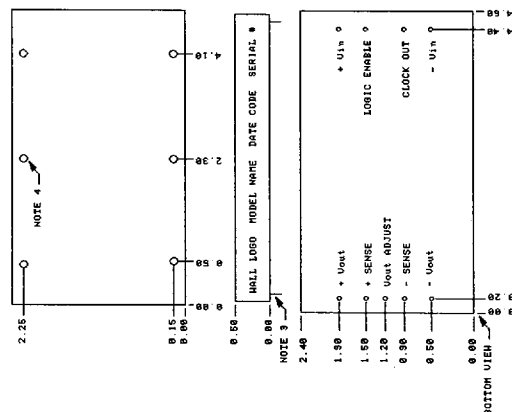
- 100 watts
- High Voltage Input for Off-Line Applications
- Available with Commercial or Industrial Rating
- Fixed Frequency Operation
- Industry Standard Pin-Outs Available
- 17.5 Watts Per Cubic Inch
- Parallelable/Active Current Sharing
- 5 Year Warranty

SINGLE OUTPUT

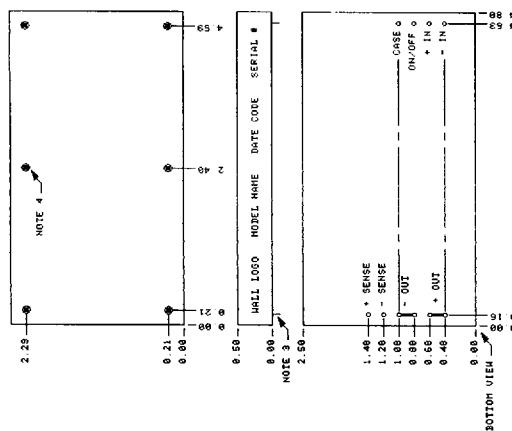
PD Series

Input Voltage Range (VDC)	Output Voltage (VDC)	Output Current (Amps)	Over Voltage Protection (VDC)	Model Number
21 - 60	5	20.0	6.8	PD36S5-100
21 - 60	12	8.33	15	PD36S12-100
21 - 60	15	6.67	18	PD36S15-100
21 - 60	24	4.16	27	PD36S24-100
21 - 60	48	2.08	51	PD36S48-100
36 - 72	5	20.0	6.8	PD46S5-100
36 - 72	12	8.33	15	PD46S12-100
36 - 72	15	6.67	18	PD46S15-100
36 - 72	24	4.16	27	PD46S24-100
36 - 72	48	2.08	51	PD46S48-100
55 - 110	5	20.0	6.8	PD74S5-100
55 - 110	12	8.33	15	PD74S12-100
55 - 110	15	6.67	18	PD74S15-100
55 - 110	24	4.16	27	PD74S24-100
55 - 110	48	2.08	51	PD74S48-100
85 - 200	5	20.0	6.8	PD155S5-100
85 - 200	12	8.33	15	PD155S12-100
85 - 200	15	6.67	18	PD155S15-100
85 - 200	24	4.16	27	PD155S24-100
85 - 200	48	2.08	51	PD155S48-100
170 - 400	5	20.0	6.8	PD270S5-100
170 - 400	12	8.33	15	PD270S12-100
170 - 400	15	6.67	18	PD270S15-100
170 - 400	24	4.16	27	PD270S24-100

Standard Pin-Out



Optional Pin-Out A



Options:

Customer must specify by adding appropriate letters to the end of the model number.

- Industrial temperature grade
- Alternate pin-out and case dimensions
- Heatsink option with lengthwise fins
- Heatsink option with crosswise fins
- 2500VDC input/output isolation available

Anatomy of Our Model

Numbers:

Example: PD155S24-100IHC

PN (series) 155 (nom inuit voltage)

F-D (series)	133 (mult. input voltage)
S (# of Outputs)	24 (output voltage)

```

S (# of outputs)  z4 (output)
-100 (power)      | {temp grade}

```

HC (heatsink type)

Notes

1. All case, pin to case and pin to header dimensions reference only unless otherwise noted.
2. Standard Case: All pins except those used for +Vout and -Vout diameter is 0.04". Pin diameter for +Vout and -Vout is 0.08". Pin length is 0.22" min.
Optional Case PinOut A: PC pins - 0.062" diameter x 0.16" long, typical 10 places.
3. Tolerance: Pin spacing $\pm 0.01"$. Pin diameter $\pm 0.005"$
4. Clearance for #6 screw in six typical places.

5. Minimum load required to maintain regulation, consult factory.
6. Significant capacitive load may inhibit start-up and operation, consult factory.
7. 20% minimum load required to maintain regulation.