

100 WATTS - PD SERIES

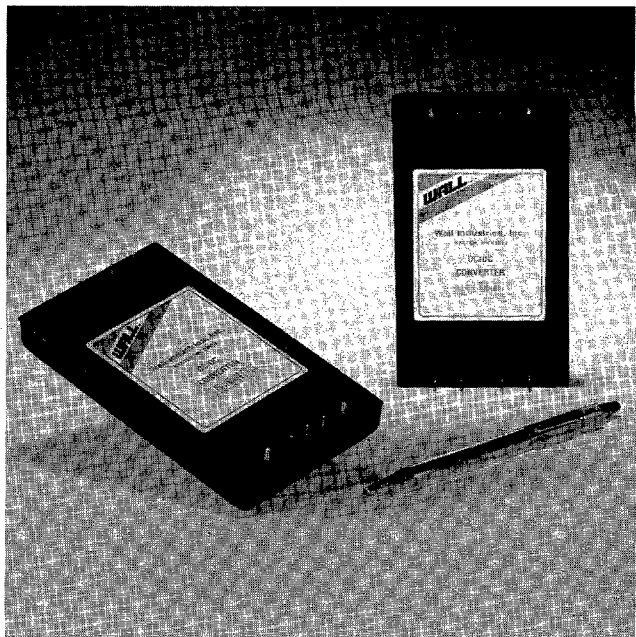
Fixed Frequency High Power Converters

FEATURES

- ◆ Industry Standard Pin-Out
- ◆ Input and Output Filtering Integral to Supply
- ◆ Fixed Frequency Operation
- ◆ Available with Commercial or Industrial Temperature Rating
- ◆ Current Limiting Short Circuit Protection
- ◆ High Voltage Input for Off-Line Applications
- ◆ Auto-Recovery Thermal Shutdown
- ◆ Five Year Warranty

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 operation, overload and over voltage protection.

**SPECIFICATIONS: PD SERIES**

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

INPUT SPECIFICATIONS

Input Voltages21-60, 36-72, 55-110, 85-200, 170-400VDC
 Nominal Input.....36, 48, 74, 155, 270VDC
 Input FilterPi filter
 Remote ON/Off ControlOpen Collector TTL Compatible

OUTPUT SPECIFICATIONS

Output Currentsee table
 Output 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 ProtectionCurrent limiting, thermal shutdown
 Ripple/Noise1% of Vout
 Current Limiting150%
 Transient Response.....w/in 1% steady state value in
150mSec for 25% load change
 Over Voltage ProtectionSelf-Resetting Crowbar

GENERAL SPECIFICATIONS

Efficiency80% min.
 Isolation Voltage, input to output500VDC min. @1μA
 Remote Senseup to 0.3VDC drop in power leads
 Turn On Delay.....250mSec
 Switching Frequency.....150kHz typical

ENVIRONMENTAL SPECIFICATIONS

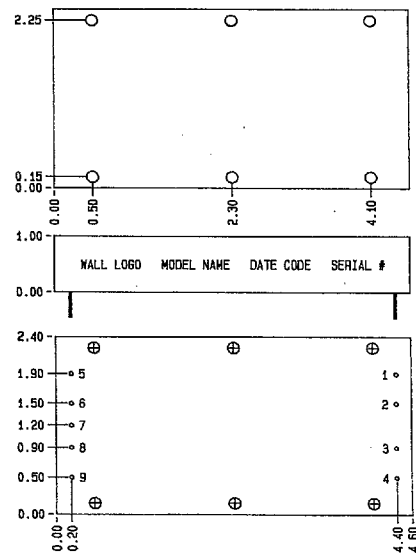
Commercial Operating Temperature-25 to 85°C baseplate
 Commercial Storage Temperature-55 to +100°C
 Temperature Coefficient0.02% per °C
 Industrial Storage Temperature-55 TO +100°C
 Industrial Operating Temperature-40 to +85°C baseplate
 Humidity (non-condensing).....20 to 95% R.H.

PHYSICAL SPECIFICATIONS

Shielding Connections.....Six-sided
 Case MaterialBlack epoxy coated metal,
aluminum base plate

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

Input Voltage (VDC)	Output Voltage (VDC)	Output Current (Amps)	Model Number
21-60	5	20.0	PD36S5-100
	12	8.33	PD36S12-100
	15	6.67	PD36S15-100
	24	4.16	PD36S24-100
	48	2.08	PD36S48-100
36-72	5	20.0	PD48S5-100
	12	8.33	PD48S12-100
	15	6.67	PD48S15-100
	24	4.16	PD48S24-100
	48	2.08	PD48S48-100
55-110	5	20.0	PD74S5-100
	12	8.33	PD74S12-100
	15	6.67	PD74S15-100
	24	4.16	PD74S24-100
	48	2.08	PD74S48-100
85-200	5	20.0	PD155S5-100
	12	8.33	PD155S12-100
	15	6.67	PD155S15-100
	24	4.16	PD155S24-100
	48	2.08	PD155S48-100
170-400	5	20.0	PD270S5-100
	12	8.33	PD270S12-100
	15	6.67	PD270S15-100
	24	4.16	PD270S24-100
	48	2.08	PD270S48-100



Industrial Temperature Grade Option: Customer must specify by adding "I" to the end of the model number.

Notes:

1. All case and pin to case dimensions reference only unless otherwise noted.
2. 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 0.20" min.
3. Tolerance: Pin spacing: $\pm 0.01"$. Pin diameter: $\pm 0.005"$.
4. Clearance for #6 screw in six typical places.
5. No minimum load required to maintain operation and regulation.
6. Significant capacitive load may inhibit start-up and operation, consult factory.
7. Modified designs considered, consult factory.

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