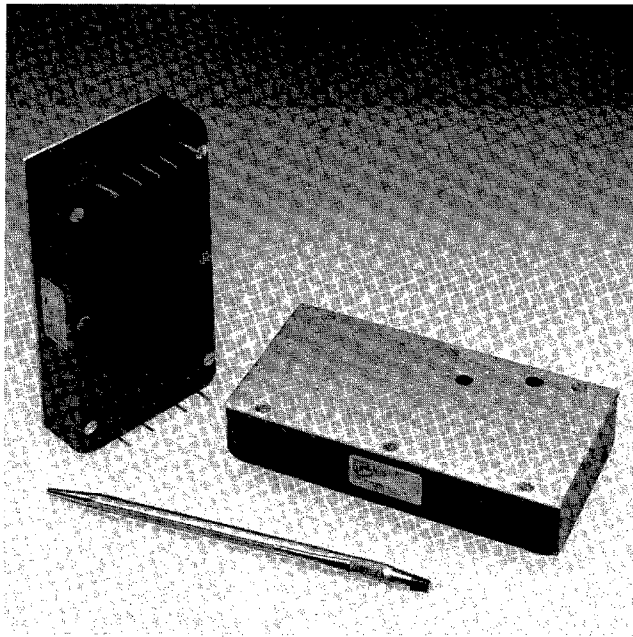


**150 WATTS - HD SERIES**

Single, Dual, and Triple Outputs from Industry Standard Package

**FEATURES**

- ◆ Wide Input Voltage Range (2:1, 3:1)
- ◆ Industry Standard Pin-Out, 2.4 x 4.6" Footprint
- ◆ Typical efficiency: 80%
- ◆ 250kHz Fixed Switching Frequency
- ◆ Continuous short circuit protection
- ◆ 500 VDC I/O isolation
- ◆ Self-resetting Crowbar Overvoltage Protection
- ◆ Input and Output Filtering Integral to Supply
- ◆ Five Year Warranty



**THE HD SERIES FROM WALL INDUSTRIES**

The HD Series of DC/DC converters boasts single, dual and triple output configurations from an industry standard footprint with up to 150 watts of output power. Appropriate for commercial applications, these ruggedized converters are fully encapsulated and stand one inch tall. Baseplates are equipped with six through holes to accommodate chassis, cold-plate, or PC board mounting.

**SPECIFICATIONS: HD SERIES**

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

**INPUT SPECIFICATIONS**

Input Voltages .....18-36, 20-60, 36-72VDC  
 Input Filter .....Pi-input filter  
 Remote On/Off Control .....Open Collector TTL

**OUTPUT SPECIFICATIONS**

Output Current .....see table  
 Output Voltage Tolerance .....± 1%  
 Output Trim (external).....± 10% primary only  
 Line Regulation .....± 0.5%  
 Load Regulation .....± 1.0%  
 Short Circuit Protection .....Continuous  
 Over Voltage Protection .....Self resetting crowbar  
 Ripple/Noise (20MHz BW) .....1% of Vout  
 Output Transient Response .....w/in 1% steady state value in  
 .....150µSec for 25% load change

**GENERAL SPECIFICATIONS**

Efficiency .....80% typical  
 Isolation Voltage, input to output .....500VDC  
 Isolation Resistance, input to output .....100MΩ  
 Remote Sense (singles).....up to 0.3VDC drop in power leads  
 Turn On Delay.....250mSec  
 Switching Frequency .....250kHz typical

**ENVIRONMENTAL SPECIFICATIONS**

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

**PHYSICAL SPECIFICATIONS**

Dimensions.....2.4 x 4.6 x 1.0"  
 Shielding .....Six-sided  
 Case Material .....Black epoxy coated metal,  
 .....aluminum baseplate

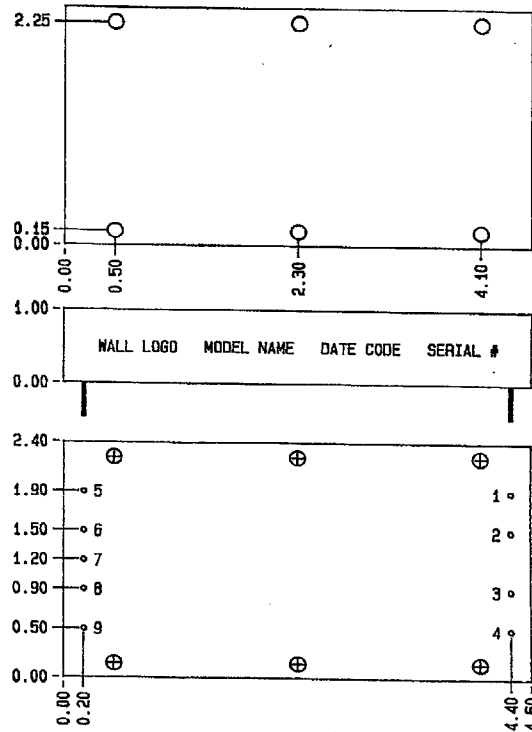
Due to advances in technology, specifications subject to change without notice.

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Input Voltage (VDC)	Output Voltage (VDC)	Output Current (Amps)	Model Number
18-36	5	30.0	HD24S5-150
	12	12.5	HD24S12-150
	15	10.0	HD24S15-150
	24	6.25	HD24S24-150
	± 5	15.0	HD24D5-150
	± 12	6.25	HD24D12-150
	± 15	5.0	HD24D15-150
	± 24	3.12	HD24D24-150
	+5/± 12	20/± 2.08	HD24T12-150
	+5/± 15	20/± 1.66	HD24T15-150
+5/± 24	20/± 1.04	HD24T24-150	
20-60	5	30.0	HD36S5-150
	12	12.5	HD36S12-150
	15	10.0	HD36S15-150
	24	6.25	HD36S24-150
	± 5	15.0	HD36D5-150
	± 12	6.25	HD36D12-150
	± 15	5.0	HD36D15-150
	± 24	3.12	HD36D24-150
	+5/± 12	20/± 2.08	HD36T12-150
	+5/± 15	20/± 1.66	HD36T15-150
+5/± 24	20/± 1.04	HD36T24-150	
36-72	5	30.0	HD48S5-150
	12	12.5	HD48S12-150
	15	10.0	HD48S15-150
	24	6.25	HD48S24-150
	± 5	15.0	HD48D5-150
	± 12	6.25	HD48D12-150
	± 15	5.0	HD48D15-150
	± 24	3.12	HD48D24-150
	+5/± 12	20/± 2.08	HD48T12-150
	+5/± 15	20/± 1.66	HD48T15-150
+5/± 24	20/± 1.04	HD48T24-150	

Notes:

1. All case, pin to case, and pin to header dimensions reference only unless otherwise noted.
2. Pin diameters are 0.04" except: on Singles and Duals, +Vout and -Vout are 0.08" and on Triples, +Vout and common are 0.08". Pin length is 0.20" min
3. Tolerance: Pin to pin: ± 0.01", Pin diameter: ± 0.005"
4. Thru-holes to accommodate #6 screw in 6 locations.
5. Significant capacitive load on output may inhibit start-up and operation, consult factory.
6. No minimum load required on single and dual output units, 20% minimum load required on main of triple output modules.
7. Modified designs considered, consult factory.



PIN CONNECTIONS	HD SERIES		
	Single	Dual	Triple
1	+ Vin	+ Vin	+ Vin
2	On/Off	On/Off	On/Off
3	N/C	N/C	N/C
4	-Vin	- Vin	- Vin
5	+ Vout	+ Vout	Trim
6	+ Sense	Common	+ Vout
7	Trim	No pin	+ Auxiliary
8	-Sense	Common	Common
9	-Vout	- Vout	-Auxiliary

Important: Sense pins must be connected for operation.

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