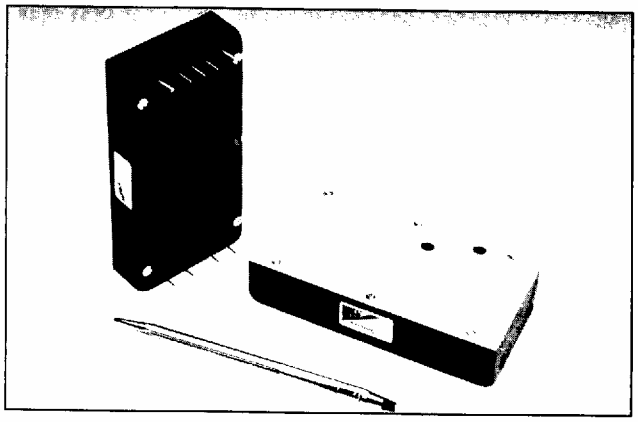
HD Series — Up to 150 Watts

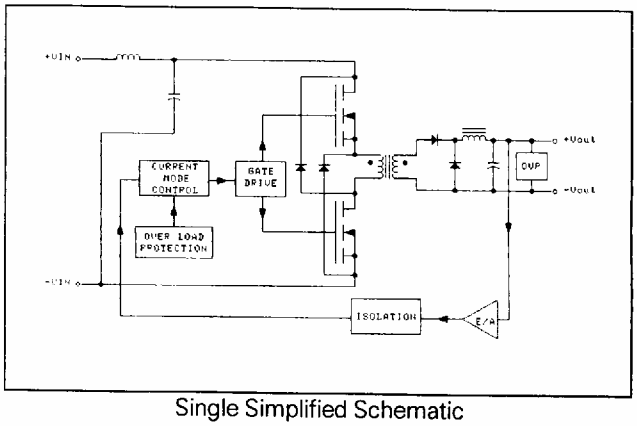
FEATURES

- Single, Dual and Triple Outputs
- Wide Input Voltage Range
- Active Current Sharing
- 2.4" x 4.6" Footprint
- Fixed Frequency Operation
- 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 threaded inserts to accommodate chassis, cold-plate, or PC board mounting.



Single Simplified Schematic

SPECIFICATIONS

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

INPUT SPECIFICATIONS

Input Voltage Range	18-36, 20-60, 36-72VDC
Input Filter	Pi-Input Filter
Remote On/Off Control	Open Collector TTL

OUTPUT SPECIFICATIONS

Output Current	see table
Voltage Tolerance	±1%
Output Trim (external)	±10% (primary only)
Line Regulation	±0.1%
Load Regulation	±0.5%
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 150 µSec for 25% load change

GENERAL SPECIFICATIONS

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

ENVIRONMENTAL SPECIFICATIONS

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

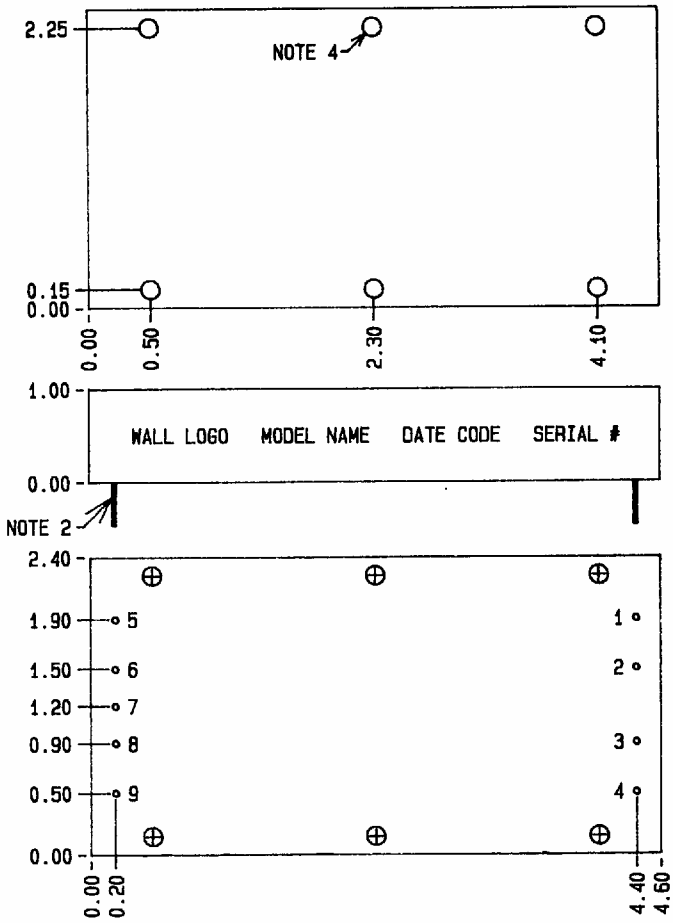
PHYSICAL SPECIFICATIONS

Dimensions	2.4 x 4.6 x 1.0"
Case Material	Black epoxy coated metal, aluminum baseplate

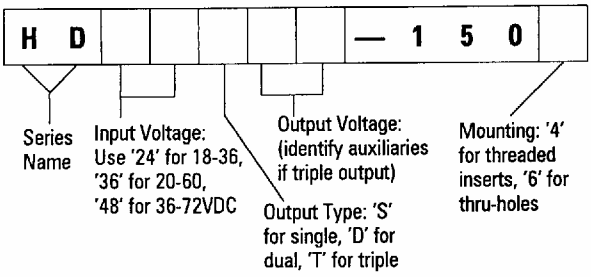
Due to advances in technology, specifications subject to change without notice.

SINGLE/DUAL/TRIPLE OUTPUT HD SERIES

Available Input Voltages (VDC)	Corresponding Outputs	
	Voltage (VDC)	Current (A)
18-36, 20 - 60, 36-72	5	30
	12	12.5
	15	10.0
	24	6.25
	±5	15.0
	± 12	6.25
	± 15	5.0
	± 24	3.24
	+5/± 12	+20/± 2.08
	+5/± 15	+20/± 1.66
	+5/± 24	+20/± 1.04



How to Structure a Part Number



Pin Functions			
Pin	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.

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 0.22" min.
3. Tolerance: Pin spacing ± 0.01"; pin diameter ± 0.005"
4. 4-40 thread insert, 0.5" deep min. , typical six places. Insert location tolerance ± 0.01". Option for thru-holes to accomodate 6 screw in same 6 locations
5. Minimum load required to maintain regulation, consult factory
6. Significant capacitive load may inhibit start-up and operation, consult factory