

**25 TO 40 WATTS - CA SERIES**

Ultra Wide Input Voltage Range, Low Profile

**FEATURES**

- Ultra-Wide Input Voltage Range (4:1)
- LC Input Filter for Low Reflected Ripple Current
- Regulated Outputs
- Thermal Shutdown with Auto-Recovery
- Current Limiting Short Circuit Protection
- 500VDC min. I/O Isolation
- Industry Standard Package and Pin-Out
- Industrial temperature grade also available

**THE CA SERIES FROM WALL INDUSTRIES**

The CA Series of single, dual and triple output DC/DC converters performs over an ultra-wide input voltage range (4:1), providing indefinite short circuit and overvoltage protection. Without a heatsink, the CA Series' design technology allows for up to 40 watts output power from a 3.0 x 3.0 x 0.40" case. These current mode control forward converters are designed for improved transient response and reduced stress on switching components.



**SPECIFICATIONS: CA SERIES**

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

**INPUT SPECIFICATIONS**

Input Voltages.....4.5-9,9-36, 18-75, 55-110VDC  
 Nominal Input.....5, 24, 48, 74VDC  
 Input Filter.....LC input filter  
 Remote On/Off Control.....Open Collector TTL

**OUTPUT SPECIFICATIONS**

Output Current.....see table  
 Voltage Tolerance.....±1% primary, ±2% auxiliary  
 Output Trim (external).....±10% (primary only)  
 Line Regulation.....0.5%  
 Load Regulation.....±1% singles (see note 5)  
 Ripple/Noise (20MHz BW).....75mV p-p  
 Transient Response.....<200u sec to within ±1% Vout

**GENERAL SPECIFICATIONS**

Efficiency.....80% typical  
 .....5VDC in.....75% typical  
 Isolation Voltage (input to output).....500VDC min.  
 Isolation Resistance (input to output).....500MOhms  
 Switching Frequency.....250kHz(typical)

**ENVIRONMENTAL SPECIFICATIONS**

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

**PHYSICAL SPECIFICATIONS**

Shielding.....Six-sided  
 Weight.....approx. 4.0 oz.  
 Case Material.....Black coated metal,  
 .....non-conductive base plate

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

Input Voltage (VDC)	Output Voltage (VDC)	Output Current (Amps)	Over Voltage Set-Point (VDC)	Model Number
4.5-9	3.3	7.58	5.1	CA5S3.3-25
	5	5.0	6.2	CA5S5-25
	12	2.0	15	CA5S12-25
	15	1.6	18	CA5S15-25
	18	1.38	21	CA5S18-25
	±5	2.5	6.2	CA5D5-25
	±12	1.04	15	CA5D12-25
	±15	.83	18	CA5D15-25
9-36	3.3	7.58	5.1	CA24S3.3-25
	5	5.0	6.2	CA24S5-25
		8.0	6.2	CA24S5-40
	12	2.0	15	CA24S12-25
		3.3	15	CA24S12-40
	15	1.6	18	CA24S15-25
		2.66	18	CA24S15-40
	18	1.38	21	CA24S18-25
		2.22	21	CA24S18-40
	±12	1.25	15	CA24D12-30
		1.66	15	CA24D12-40
	±15	1.0	18	CA24D15-30
		1.33	18	CA24D15-40
	+5/±12	4.0/±0.42	6.2/15	CA24T12-30
	+5/±15	4.0/±0.33	6.2/18	CA24T15-30
18-75	3.3	7.58	5.1	CA48S3.3-25
	5	5.0	6.2	CA48S5-25
		8.0	6.2	CA48S5-40
	12	2.0	15	CA48S12-25
		3.3	15	CA48S12-40
	15	1.6	18	CA48S15-25
		2.66	18	CA48S15-40
	18	1.38	21	CA48S18-25
		2.22	21	CA48S18-40
	±12	1.25	15	CA48D12-30
		1.66	15	CA48D12-40
	±15	1.0	18	CA48D15-30
		1.33	18	CA48D15-40
	+5/±12	4.0/±0.42	6.2/15	CA48T12-30
	+5/±15	4.0/±0.33	6.2/18	CA48T15-30
55-110	3.3	7.58	5.1	CA74S3.3-25
	5	5.0	6.2	CA74S5-25
		8.0	6.2	CA74S5-40
	12	2.0	15	CA74S12-25
		3.3	15	CA74S12-40
	15	1.6	18	CA74S15-25
		2.66	18	CA74S15-40
	18	1.38	21	CA74S18-25
		2.22	21	CA74S18-40
	±12	1.25	15	CA74D12-30
		1.66	15	CA74D12-40
	±15	1.0	18	CA74D15-30
		1.33	18	CA74D15-40
	+5/±12	4.0/±0.42	6.2/15	CA74T12-30
	+5/±15	4.0/±0.33	6.2/18	CA74T15-30

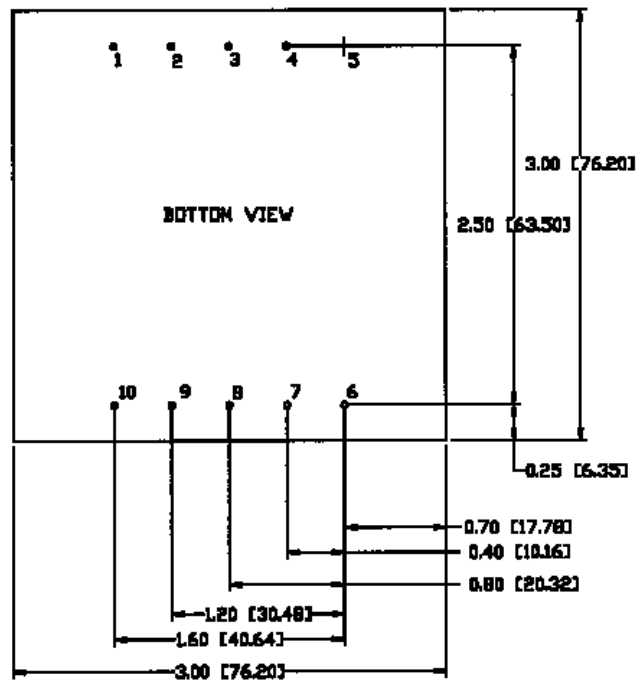
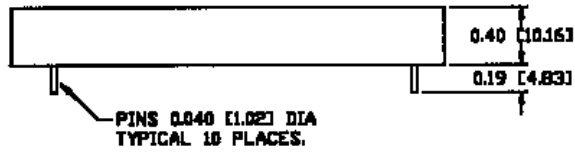
### PIN CONNECTIONS

	Singles	Duals	Triples	Alternate Pin-Out A
1	Remote	Remote	Remote	
2	Case	Case	Case	
3	+ Vin	+Vin	+Vin	-Vin
4	- Vin	-Vin	-Vin	+Vin
5	No pin	No pin	No pin	No pin
6	N/C	-Vout	Aux. -Vout	
7	N/C	Common	Aux. +Vout	
8	Common	Common	Common	
9	+Vout	+Vout	+5Vout	
10	Trim	Trim	Trim	

### NOTES:

1. All case and pin to case dimensions reference only unless otherwise noted.
2. PC pins 0.04" dia x 0.18" long min.; typical nine places.
3. Pin to pin tolerance ±0.01". Pin dimension tolerance ±0.005"
4. Duals: 25 - 100% load: ±1% and 0-100% load: ±5%. Triples: 10% min load required on primary output, ±1%.
5. Significant capacitive load may inhibit start-up and operation, consult factory.
6. For Industrial Temp add suffix "I".

HEADER PLATE PERTRUDES  
0.008 TYPICAL FOUR SIDES.



DERATING CURVE

