

# REGULATED DC/DC CONVERTERS

## FEATURES:

- HIGH PERFORMANCE TT INPUT FILTER
- SHORT CIRCUIT PROTECTED
- EXTREMELY LOW OUTPUT NOISE
- HIGHLY REGULATED FLOATING OUTPUTS
- LOW INPUT REFLECTED RIPPLE
- P.C. CARD MOUNTING



## SPECIFICATIONS:

- INPUT REFLECTED RIPPLE  
1% of input voltage (max.)
- OUTPUT VOLTAGE TOLERANCE  
Factory set at  $\pm 1\%$  (fixed)
- REGULATION  
Line-0.05%  
Load-0.05%; 0.1% for PR87S
- RIPPLE AND NOISE  
1 MV RMS (max.)
- INPUT-OUTPUT ISOLATION  
500 VDC (min.)
- OPERATING TEMPERATURE  
-25°C to +71°C
- STORAGE TEMPERATURE  
-55°C to +85°C
- EFFICIENCY  
Nominal line at full load 55-65%

SINGLE VOLTAGE UNITS	INPUT VOLTAGE $\pm 10\%$	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (mA)	CASE STYLE	MODEL NUMBER	PRICE 1-9 QTY.
	5VDC	5	600	B1	PR87S	63.00
		5	1000	C1	PR88S	69.00
		5	2000	A1	PR89S	95.00
		12	400	B1	PR12S	69.00
		15	300	B1	PR15S	69.00
	9VDC	5	600	B1	PR87S-9	63.00
		5	1000	C1	PR88S-9	69.00
		5	2000	A1	PR89S-9	95.00
		12	400	B1	PR12S-9	69.00
15		300	B1	PR15S-9	69.00	
12VDC	5	600	B1	PR87S-12	63.00	
	5	1000	C1	PR88S-12	69.00	
	5	2000	A1	PR89S-12	95.00	
	12	400	B1	PR12S-12	69.00	
	15	300	B1	PR15S-12	69.00	
15VDC	5	600	B1	PR87S-15	63.00	
	5	1000	C1	PR88S-15	69.00	
	5	2000	A1	PR89S-15	95.00	
	12	400	B1	PR12S-15	69.00	
	15	300	B1	PR15S-15	69.00	
24VDC	5	600	B1	PR87S-24	63.00	
	5	1000	C1	PR88S-24	69.00	
	5	2000	A1	PR89S-24	95.00	
	12	400	B1	PR12S-24	69.00	
	15	300	B1	PR15S-24	69.00	
28VDC	5	600	B1	PR87S-28	63.00	
	5	1000	C1	PR88S-28	69.00	
	5	2000	A1	PR89S-28	95.00	
	12	400	B1	PR12S-28	69.00	
	15	300	B1	PR15S-28	69.00	
36VDC	5	600	B1	PR87S-36	63.00	
	5	1000	C1	PR88S-36	69.00	
	5	2000	A1	PR89S-36	95.00	
	12	400	B1	PR12S-36	69.00	
	15	300	B1	PR15S-36	69.00	
48VDC	5	500	B1*	PR87S-48	63.00	
	5	1000	B1*	PR88S-48	69.00	
	12	450	B1*	PR12S-48	69.00	
	15	350	B1*	PR15S-48	69.00	



**POLYTRON DEVICES, INC.**

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# REGULATED DC/DC CONVERTERS (continued)

DUAL VOLTAGE	INPUT VOLTAGE ( $\pm 10\%$ )	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (mA)	CASE STYLE	MODEL NUMBER	PRICE 1-9 QTY.		
<b>5VDC</b>		$\pm 12$	$\pm 150$	B1*	PR81-12	63.00		
		$\pm 12$	$\pm 250$	B1*	PR82-12	69.00		
		$\pm 12$	$\pm 350$	A1	PR83-12	91.00		
		$\pm 15$	$\pm 150$	B1*	PR81-15	63.00		
		$\pm 15$	$\pm 250$	B1*	PR82-15	69.00		
		$\pm 15$	$\pm 350$	A1	PR83-15	92.00		
		<b>9VDC</b>		$\pm 12$	$\pm 150$	B1*	PR81-12-9	61.00
				$\pm 12$	$\pm 250$	B1*	PR82-12-9	67.00
$\pm 12$	$\pm 350$			A1	PR83-12-9	88.00		
$\pm 15$	$\pm 150$			B1*	PR81-15-9	61.00		
$\pm 15$	$\pm 250$			B1*	PR82-15-9	67.00		
$\pm 15$	$\pm 350$			A1	PR83-15-9	92.00		
<b>12VDC</b>		$\pm 12$	$\pm 150$	B1*	PR81-12-12	61.00		
		$\pm 12$	$\pm 250$	B1*	PR82-12-12	67.00		
		$\pm 12$	$\pm 350$	A1	PR83-12-12	88.00		
		$\pm 15$	$\pm 150$	B1*	PR81-15-12	61.00		
		$\pm 15$	$\pm 250$	B1*	PR82-15-12	67.00		
		$\pm 15$	$\pm 350$	A1	PR83-15-12	92.00		
<b>15VDC</b>		$\pm 12$	$\pm 150$	B1*	PR81-12-15	61.00		
		$\pm 12$	$\pm 250$	B1*	PR82-12-15	67.00		
		$\pm 12$	$\pm 350$	A1	PR83-12-15	88.00		
		$\pm 15$	$\pm 150$	B1*	PR81-15-15	61.00		
		$\pm 15$	$\pm 250$	B1*	PR82-15-15	67.00		
		$\pm 15$	$\pm 350$	A1	PR83-15-15	92.00		
<b>24VDC</b>		$\pm 12$	$\pm 150$	B1*	PR81-12-24	61.00		
		$\pm 12$	$\pm 250$	B1*	PR82-12-24	67.00		
		$\pm 12$	$\pm 350$	A1	PR83-12-24	88.00		
		$\pm 15$	$\pm 150$	B1*	*PR81-15-24	61.00		
		$\pm 15$	$\pm 250$	B1*	PR82-15-24	67.00		
<b>36VDC</b>		$\pm 12$	$\pm 150$	B1*	PR81-12-36	61.00		
		$\pm 12$	$\pm 250$	B1*	PR82-12-36	67.00		
		$\pm 12$	$\pm 350$	A1	PR83-12-36	88.00		
		$\pm 15$	$\pm 150$	B1*	PR81-15-36	61.00		
		$\pm 15$	$\pm 250$	B1*	PR82-15-36	67.00		
<b>48VDC</b>		$\pm 12$	$\pm 220$	B1*	PR82-12-48	64.00		
		$\pm 15$	$\pm 170$	B1*	PR82-15-48	64.00		
<b>TRIPLE VOLTAGE</b>		<b>5VDC</b>	5/ $\pm 12$ 5/ $\pm 15$	600/ $\pm 150$ 600/ $\pm 150$	A1 A1	PR97-12 PR97-15	98.00 98.00	
		<b>12VDC</b>	5/ $\pm 12$ 5/ $\pm 15$	600/ $\pm 150$ 600/ $\pm 150$	A1 A1	PR97-12-12 PR97-15-12	98.00 98.00	
		<b>24VDC</b>	5/ $\pm 12$ 5/ $\pm 15$	600/ $\pm 150$ 600/ $\pm 150$	A1 A1	PR97-12-24 PR97-15-24	98.00 98.00	

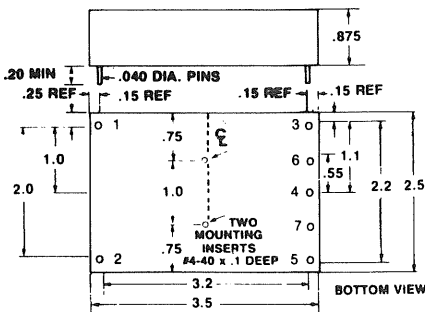
## CONNECTIONS (A1, B1, B2)

PINS	SINGLE OUTPUT	DUAL OUTPUT	TRIPLE OUTPUT
1	+ VDC IN	+ VDC IN	+ VDC IN
2	- VDC IN	- VDC IN	- VDC IN
3	+ VDC OUT	+ VDC OUT	COM (5)
4	NO CONNECTION	COMMON OUT	-12/-15
5	- VDC OUT	- VDC OUT	+12/+15
6	NO PIN	NO PIN	+5 VDC
7	NO PIN	NO PIN	COM (12/15)

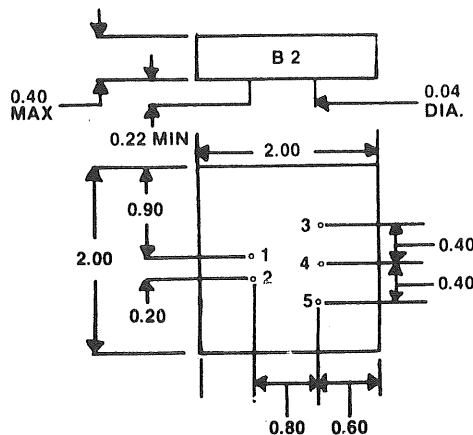
\* Available in alternate pin configuration case B2 add suffix "C" after model number

Other voltages and currents available upon request

### CASE A1



### CASE B2



### CASE B1, C1

