

Series PP



1.5-25

WATTS

DC/DC CONVERTERS

**SINGLE OR
DUAL OUTPUT**

Profile: 8mm

Low cost

High reliability

Guarantee 3 years

The PP series offers a range of isolated low power converters of 1.5W to 25W for voltage inputs of 4.5V to 72V. Low cost together with high reliability makes the PP series very attractive with the added bonus of just 8mm profile.

INPUT

Input voltage range	4.5 at 7.2V for model 5V (P<10W) 8 at 16.5V for model 12V 18 at 32V for model 24V (P<15W) 18 at 36V for model 24V (P = 15W or 25W) 32 at 63V for model 48V (P<15W) 36 at 72V for model 48V (P = 15W or 25W)
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OUTPUT

Power (natural convection)	1.5 to 25W
Output adjustable	+/- 5% at 15W
Line regulation	0.4%
Load regulation	0.6%
Ripple and noise (value peak to peak)	120 mV for models 5V 150 mV for models 12V and 15V
Temperature coefficient	0.03%/°C
Over voltage protection	115%-140% (PP10, PP15, PP25)

GENERAL

Efficiency	70% for model 1.5W at 85% for model 25W
Remote control	PP15 and PP25
Isolation voltage:	
Input-output	500 VAC
Input-ground	500 VAC
Output-ground	500 VDC
Series operation	possible

ENVIRONMENTAL

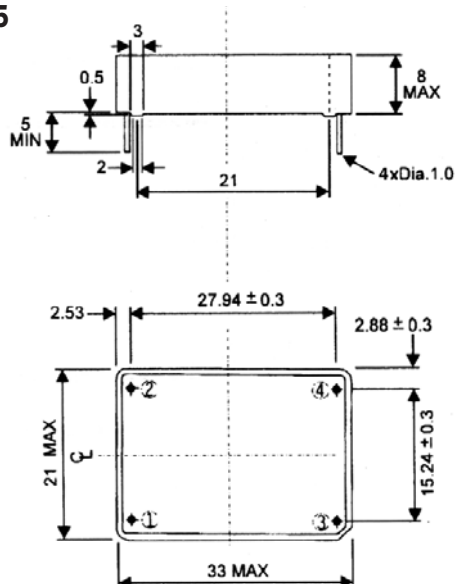
Operating temperature	-20° C to +55°C
Derating	55°C to 71°C (50%)
Storage temperature	-40°C to +85°C
Operating humidity	20% ~ 95%
Shock	20 G
Vibration	10Hz ~ 55Hz (sweep for 1mm) amplitude 1.5mm constant (9G max) X, Y, Z two hours each

ELECTRICAL SPECIFICATIONS

Volts	Amp.	Watts	Model Input 5V	Model Input 12V	Model Input 24V	Model Input 48V
Single output						
3.3	3	9.9	PP25-5-3.3			
3.3	5	16.5				PP25-48-3.3
5	0.3	1.5	PP1R5-5-5	PP1R5-12-5	PP1R5-24-5	PP1R5-48-5
5	0.6	3	PP3-5-5	PP3-12-5	PP3-24-5	PP3-48-5
5	1.2	6	PP6-5-5	PP6-12-5	PP6-24-5	PP6-48-5
5	2	10	PP10-5-5	PP10-12-5	PP10-24-5	PP10-48-5
5	2.4	12	-	PP15-12-5	PP15-24-5	PP15-48-5
5	4	20	-	PP25-12-5	PP25-24-5	PP25-48-5
5.2	2.9	15.08	PP25-5-5.2			
12	0.12	1.44	PP1R5-5-12	PP1R5-12-12	PP1R5-24-12	PP1R5-48-12
12	0.25	3	PP3-5-12	PP3-12-12	PP3-24-12	PP3-48-12
12	0.5	6	PP6-5-12	PP6-12-12	PP6-24-12	PP6-48-12
12	0.9	10.8	PP10-5-12	PP10-12-12	PP10-24-12	PP10-48-12
12	1.3	15	-	PP15-12-12	PP15-24-12	PP15-48-12
12	2.1	25	-	PP25-12-12	PP25-24-12	PP25-48-12
15	0.1	1.5	PP1R5-5-15	PP1R5-12-15	PP1R5-24-15	PP1R5-48-15
15	0.2	3	PP3-5-15	PP3-12-15	PP3-24-15	PP3-48-15
15	0.4	6	PP6-5-15	PP6-12-15	PP6-24-15	PP6-48-15
15	0.7	10.5	PP10-5-15	PP10-12-15	PP10-24-15	PP10-48-15
15	1	15	-	PP15-12-15	PP15-24-15	PP15-48-15
15	1.7	25	-	PP25-12-15	PP25-24-15	PP25-48-15
Dual output						
±12	0.06	1.44	PPD1R5-5-1212	PPD1R5-12-1212	PPD1R5-24-1212	PPD1R5-48-1212
±12	0.12	2.88	PPD3-5-1212	PPD3-12-1212	PPD3-24-1212	PPD3-48-1212
±12	0.25	6	PPD6-5-1212	PPD6-12-1212	PPD6-24-1212	PPD6-48-1212
±12	0.45	10.8	PPD10-5-1212	PPD10-12-1212	PPD10-24-1212	PPD10-48-1212
±15	0.05	1.5	PPD1R5-5-1515	PPD1R5-12-1515	PPD1R5-24-1515	PPD1R5-48-1515
±15	0.1	3	PPD3-5-1515	PPD3-12-1515	PPD3-24-1515	PPD3-48-1515
±15	0.2	6	PPD6-5-1515	PPD6-12-1515	PPD6-24-1515	PPD6-48-1515
±15	0.35	10.5	PPD10-5-1515	PPD10-12-1515	PPD10-24-1515	PPD10-48-1515

PHYSICAL SPECIFICATION

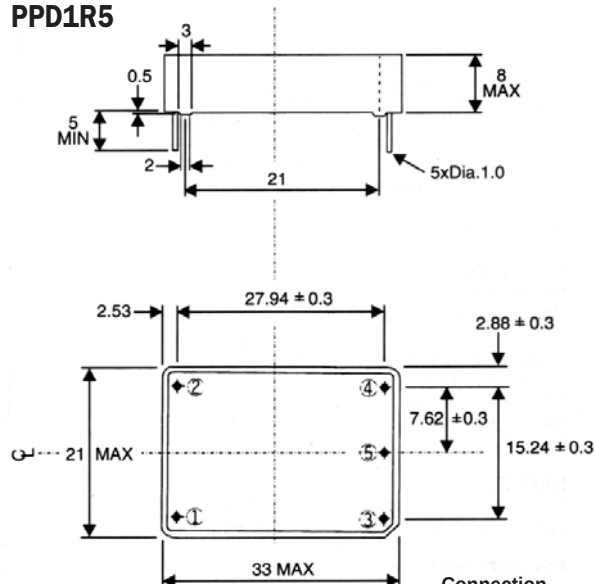
PP1R5



Connection

Pin 1	+Vin
Pin 2	-Vin
Pin 3	+Vout
Pin 4	-Vout

PPD1R5

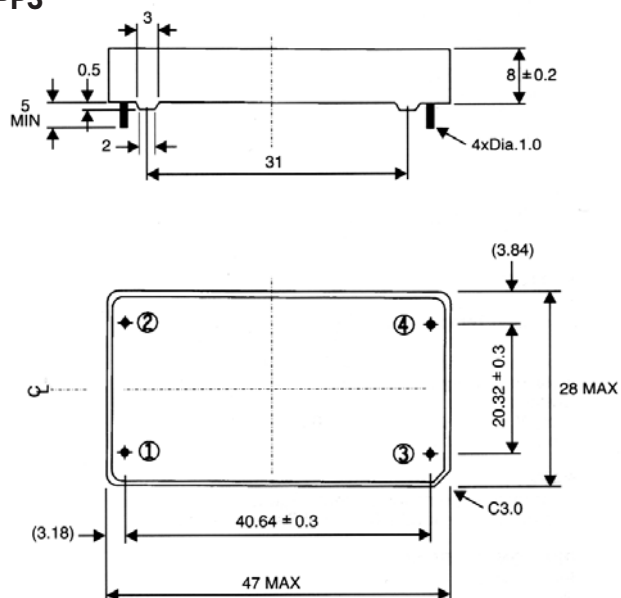


Connection

Pin 1	+Vin
Pin 2	-Vin
Pin 3	+Vout
Pin 4	-Vout
Pin 5	COM

PHYSICAL SPECIFICATION (continued)

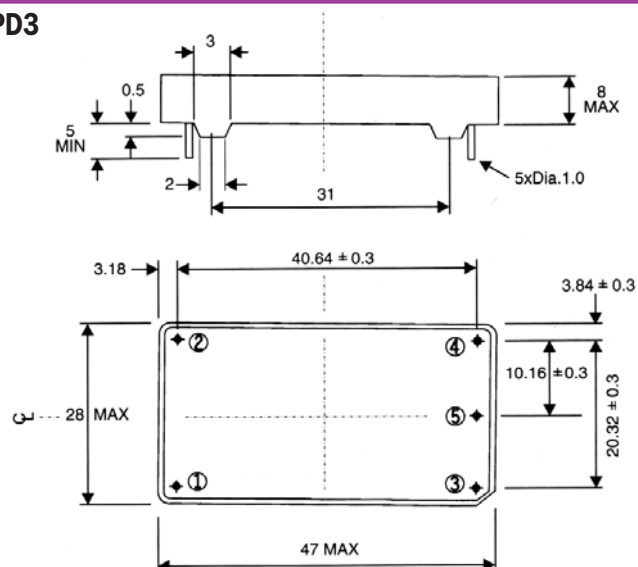
PP3



Connection

Pin 1	+Vin
Pin 2	-Vin
Pin 3	+Vout
Pin 4	-Vout

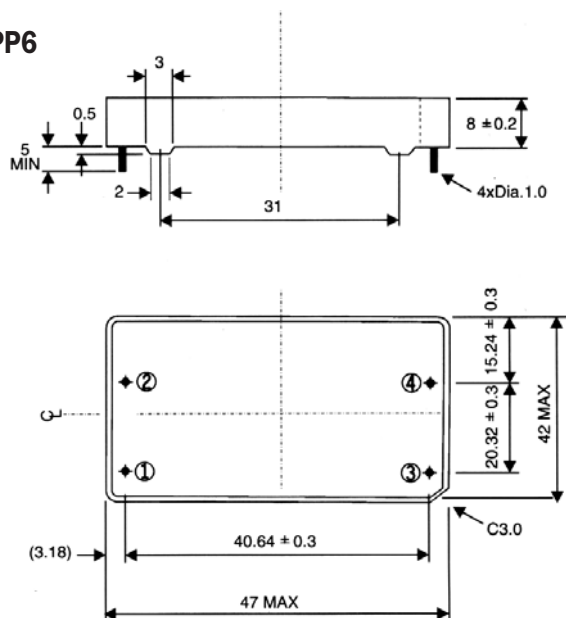
PPD3



Connection

Pin 1	+Vin
Pin 2	-Vin
Pin 3	+Vout
Pin 4	-Vout
Pin 5	COM

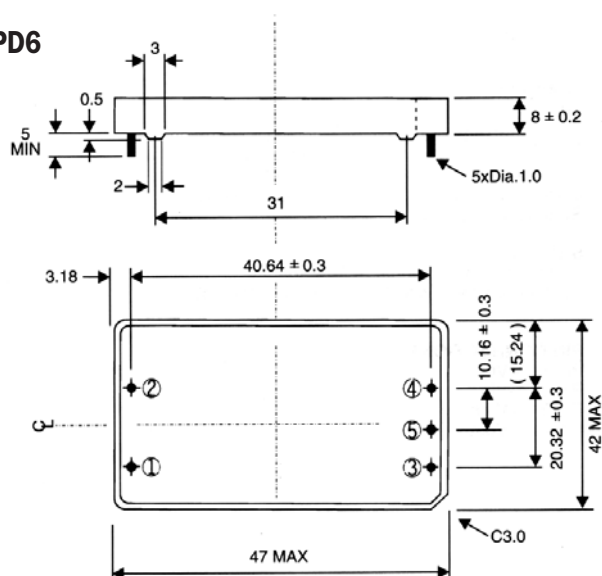
PP6



Connection

Pin 1	+Vin
Pin 2	-Vin
Pin 3	+Vout
Pin 4	-Vout

PPD6



Connection

Pin 1	+Vin
Pin 2	-Vin
Pin 3	+Vout
Pin 4	-Vout
Pin 5	COM

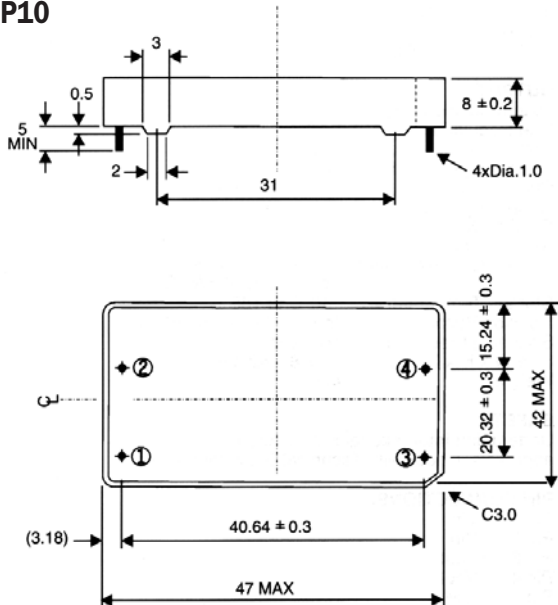
NB. Products viewed from below, not above.

Series PP

Invensys
LAMBDA 

PHYSICAL SPECIFICATION (continued)

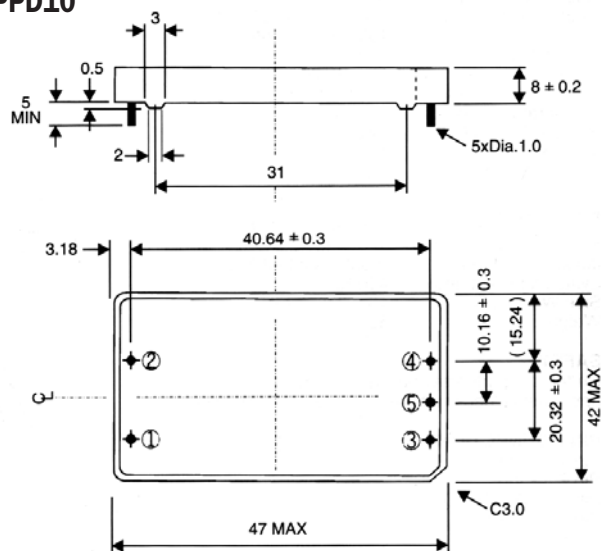
PP10



Connection

Pin 1	+Vin
Pin 2	-Vin
Pin 3	+Vout
Pin 4	-Vout

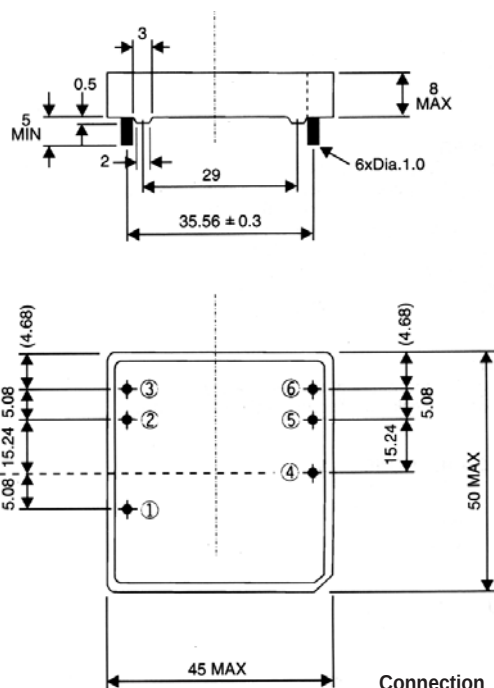
PPD10



Connection

Pin 1	+Vin
Pin 2	-Vin
Pin 3	+Vout
Pin 4	-Vout
Pin 5	COM

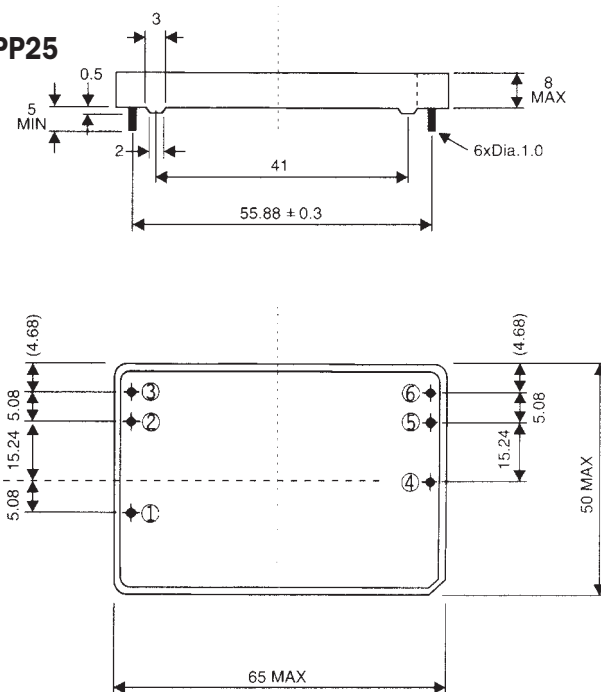
PP15



Connection

Pin 1	+Vin
Pin 2	-Vin
Pin 3	CNT-ON/OFF
Pin 4	+Vout
Pin 5	-Vout
Pin 6	TRM

PP25



Connection

Pin 1	+Vin
Pin 2	-Vin
Pin 3	CNT-ON/OFF
Pin 4	+Vout
Pin 5	-Vout
Pin 6	TRM

NB. Products viewed from below, not above.