



FEATURES 24V, 48V Inputs / Single, Dual Outputs

- High Efficiency
- Industrial Standard Pin Layout
- Encapsulated Small / Compact Size
- Wide 4:1 Input Range
- 300kHz Fixed Frequency
- Input / Output Isolation
- Surface Mounting Technology
- Six-Sided EMI Shield
- Current Mode Control
- Output Low Ripple / Noise
- Low Start up Current
- 3 Year Warranty

ELECTRICAL SPECIFICATIONS

Input	<ul style="list-style-type: none"> · Input Range DC 24V(10 - 36), 48V(20 - 72) · Efficiency 77 - 85% Typ.
Output	<ul style="list-style-type: none"> · Output Voltages 3.3V, 5V, 12V, 15V, ±5V, ±12V, ±15V · Output Voltage Tolerance ±2.0% (Single and Uncomplementary Dual), ±3.0% (Complementary Dual) · Line Regulation ±0.5% Max. (Single), ±1.0% Max. (Dual) · Load Regulation ±1.0% Max. (Single), ±2.5% Max. (Dual : Minimum Load 10%) · Ripple and Noise 1% of Vout (Bandwidth : 20MHz)
Protection Circuit	<ul style="list-style-type: none"> · Over Current Protection Work Over 105% of Rating (Current Limited Output) (NOTE 1)
Electrically Isolated	<ul style="list-style-type: none"> · Isolation Input-Output, Input-Case, Output-Case / DC500V, 100MΩ · High Pot Input-Output, Input-Case, Output-Case / AC500V, 1Min.

ENVIRONMENTAL

· Operating Temperature Range	..... -20°C ~ 71°C
· Option, See NOTE 2	..... -40°C ~ 85°C
· Operating Humidity (Non-Condensing)	..... 20% ~ 90%RH
· Storage Temperature Range	..... -40°C ~ 105°C
· Storage Humidity (Non-Condensing)	..... 10% ~ 95%RH
· Cooling Method	..... Convection
· EMI / RFI	..... Six-Sided Continuous Shield
· MTBF (MIL-HDBK-217F)	..... 5.8×10^5 hrs
· Safety	
└ Single Output	..... UL (UL 60950)
└ Single, Dual, Triple Output	..... CE_LVD (EN 60950-1) through TÜV

NOTE 1. Long term continuous operation into a short circuit will compromise the reliability of the unit.

2. As a factory added option, the all model can be operated from -40°C to 85°C, the suffix 'M' should be added to the model number when ordering. ex) PT10-48-5M

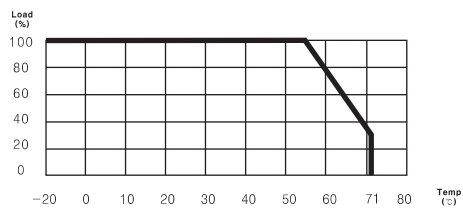
ORDERING INFORMATION

Input	Output1	Output2	Maximum Power	Ripple&Noise Max.	Efficiency Typ.	Model Number
10 - 36V	3.3V@2.40A		7.92W	75mVp-p	77%	PTS10-24-3R3
10 - 36V	5V@2.00A		10.00W	75mVp-p	82%	PTS10-24-5
10 - 36V	12V@0.90A		10.80W	120mVp-p	83%	PTS10-24-12
10 - 36V	15V@0.70A		10.50W	150mVp-p	84%	PTS10-24-15
10 - 36V	+5V@1.00A	-5V@1.00A	10.00W	100/100mVp-p	80%	PTD10-24-55
10 - 36V	+5V@1.50A	-5V@0.50A	10.00W	100/100mVp-p	78%	PTD10-24-55A
10 - 36V	+12V@0.45A	-12V@0.45A	10.80W	120/120mVp-p	83%	PTD10-24-1212
10 - 36V	+15V@0.35A	-15V@0.35A	10.50W	150/150mVp-p	83%	PTD10-24-1515
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20 - 72V	3.3V@2.40A		7.92W	75mVp-p	78%	PTS10-48-3R3
20 - 72V	5V@2.00A		10.00W	75mVp-p	81%	PTS10-48-5
20 - 72V	12V@0.90A		10.80W	120mVp-p	84%	PTS10-48-12
20 - 72V	15V@0.70A		10.50W	150mVp-p	85%	PTS10-48-15
20 - 72V	+5V@1.00A	-5V@1.00A	10.00W	100/100mVp-p	81%	PTD10-48-55
20 - 72V	+5V@1.50A	-5V@0.50A	10.00W	100/100mVp-p	81%	PTD10-48-55A
20 - 72V	+12V@0.45A	-12V@0.45A	10.80W	120/120mVp-p	83%	PTD10-48-1212
20 - 72V	+15V@0.35A	-15V@0.35A	10.50W	150/150mVp-p	83%	PTD10-48-1515

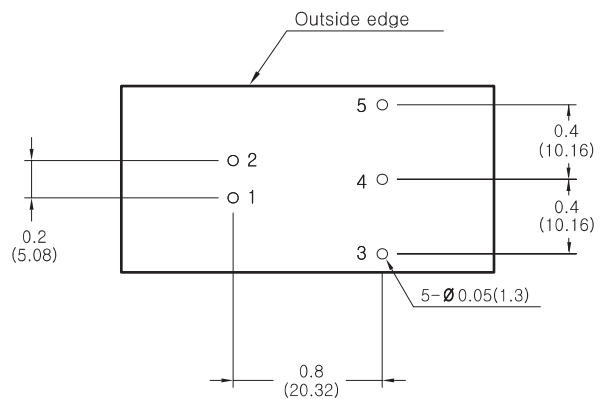
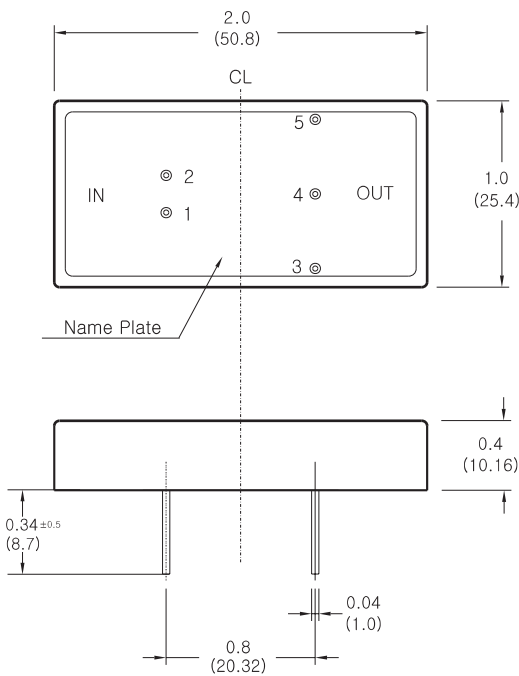
PIN ASSIGNMENTS

Single Output	Dual Output
1. +Vin	1. +Vin
2. -Vin	2. -Vin
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3. +Vout	3. Output1
4. No Pin	4. COM
5. -Vout	5. Output2

DERATING CURVE



DIMENSIONS



※ Mounting hole top view

- NOTE**
- 1 All dimension are in inches (mm)
 - 2 Weight : 40g or less
 - 3 Case Material : ZnDC