PTK25 Series Screw Terminal

Features

- ·U-Frame w/ screw terminals
- ·Industry standard pin out
- ·Wide 2:1 input range
- ·Fully isolated
- ·Output voltage trimmable
- ·Output on/off control
- ·Over-current protection
- ·Over-voltage protection
- ·Six-sided EMI shielding
- ·Constant switching frequency
- ·High efficiency
- ·Compact size 2.25”x3”x0.67”
- ·3 year warranty

Model Number	Output Power (max)	Input Voltage	Output Voltage	Output Current (min)	Output Current (max)	Ripple & Noise in mV P-P@20mHz Bandwidth	Line Reg.	Load Reg.	Efficiency (Typ.)
PTK25-D24-S3-T	20.0W	18-36VDC	3.3VDC	0A	6.0A	100	±0.25%	±0.25%	78%
PTK25-D24-S5-T	25.0W	18-36VDC	5VDC	0A	5.0A	100	±0.25%	±0.25%	79%
PTK25-D24-S12-T	24.0W	18-36VDC	12VDC	0A	2.0A	120	±0.25%	±0.25%	81%
PTK25-D24-S15-T	24.0W	18-36VDC	15VDC	0A	1.6A	150	±0.25%	±0.25%	81%
PTK25-D24-D5-T	25.0W	18-36VDC	±5VDC	0A	2.5A	75/75	±0.25%	±0.25%	79%
PTK25-D24-D12-T	24.0W	18-36VDC	±12VDC	0A	1.0A	120/120	±0.25%	±0.25%	81%
PTK25-D24-D15-T	24.0W	18-36VDC	±15VDC	0A	0.8A	150/150	±0.25%	±0.25%	81%
PTK25-D48-S3-T	20.0W	36-72VDC	3.3VDC	0A	6.0A	100	±0.25%	±0.25%	78%
PTK25-D48-S5-T	25.0W	36-72VDC	5VDC	0A	5.0A	100	±0.25%	±0.25%	79%
PTK25-D48-S12-T	24.0W	36-72VDC	12VDC	0A	2.0A	120	±0.25%	±0.25%	83%
PTK25-D48-S15-T	24.0W	36-72VDC	15VDC	0A	1.6A	150	±0.25%	±0.25%	83%
PTK25-D48-D5-T	25.0W	36-72VDC	±5VDC	0A	2.5A	75/75	±0.25%	±0.25%	80%
PTK25-D48-D12-T	24.0W	36-72VDC	±12VDC	0A	1.0A	120/120	±0.25%	±0.25%	82%
PTK25-D48-D15-T	24.0W	36-72VDC	±15VDC	0A	0.8A	150/150	±0.25%	±0.25%	82%

Note 1. All models are also available in an extended temperature range of -40°C~85°C. For these models, append “M” to the model number, e.g. PTK25-Q48-S5M.

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Input

Parameter	Conditions/Description	Min	Nom	Max	Units
Input voltage range		18	24	36	VDC
		36	48	72	VDC
Remote on/off control	Output turn-on	2.5V	(open)	7.0V	
	Output turn-off	-0.7V	(short)	0.8V	
Switching frequency	Constant		300		KHz

Output

Parameter	Conditions/Description	Min	Nom	Max	Units
Output trim range	With external trim resistors	-5%		+5%	
Set point accuracy		-2%		+2%	
Line regulation[2]	Single-output models	-0.25%		+0.25%	
(Low line to high line)	Dual-output models	-0.5%		+0.5%	
	Triple: main output (Vout)	-0.25%		+0.25%	
	auxillary outputs (+Vaux / -Vaux)	-5%		+5%	
Load regulation[2]	Single output models	-0.25%		+0.25%	
	Dual output models	-2.5%		+2.5%	
	Triple: main output (Vout)	-0.25%		+0.25%	
	aux. outputs (main output varies from 10% - 100% load)	-5%		+5%	
Minimum load		0.0			Amps
Ripple and noise					See chart

Note 2. To maintain specified regulation, it is required to have a minimum 10% load on the main output, and a 20% load on each auxillary output. Under no load conditions, operations will not damage the devices, but all specified regulation may not be met.

Protection

Parameter	Conditions/Description	Min	Nom	Max	Units
Over-current	Continuous auto recovery [3]	105%		135%	
Over-voltage	Internal clamping[3]	115%		140%	

Note 3. Continuous operation in a protected state may compromise long-term reliability.

General Specifications

Parameter	Continuous/Description	Min	Nom	Max	Units
Efficiency	Typical at full load	77%		83%	
Dielectric withstand	Input/case, input/output, output/case	500			VAC
Insulation resistance	at 500 VDC	100M			Ohms
Agency standards	Designed to meet, UL1950, EN60950, CISPR22, CE				
Case material			Zn		
Material flammability		94 V-0			
Weight			80 (2.82)		grams (ounces)
MTBF	MIL-HDBK-217F		450k		hours
Operating temperature	Regular models	-20		+71	°C
	Extended temperature models	-40		+85	°C
Storage temperature		-40		+105	°C
Humidity	Operating(non-condensing)	5%		95%	RH

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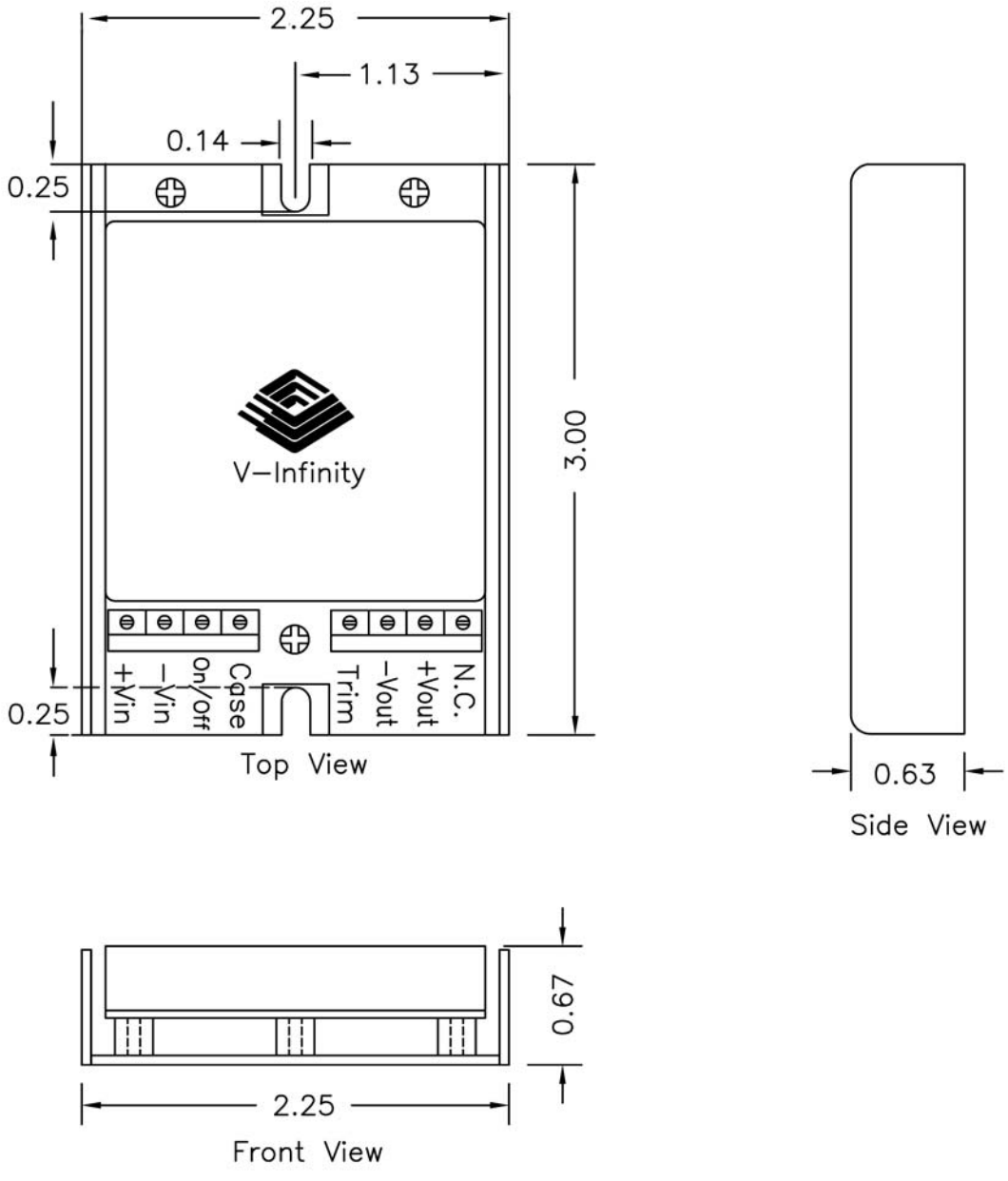

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