



40 Watt (80 Watt Peak Load), Regulated AC/DC Open Frame Series DVC41



Features

- Universal Input Range 90 – 264Vac
- Size 50,80 x 50,80 (mm)
- No Load Power Consumption < 0,15W
- High Efficiency up to 90%
- Safety Approved UL/IEC/EN62368-1
- Meets IEC/EN60335-1
- Over Voltage Protection
- Continuous Short Circuit Protection
- Peak Load (2 times of rated current (Note 6))
- Meets EN55032 Class B / CIRSS/FCC Class B
- Class II

MODEL NUMBER PIN	MODEL NUMBER TERMINAL	OUTPUT VOLTAGE [VDC]	OUTPUT CURRENT [A] MAX.	PEAK CURRENT (Note 6)	RIPPLE & NOISE (NOTE 2) [mV p-p]	VOLTAGE ACCURACY (Note 1) [%]	EFF. (Note 5) [%]
DVC41S050-P	DVC41S050	5	6	12	100	±2	87
DVC41S120-P	DVC41S120	12	3,34	6,66	120	±1	90
DVC41S150-P	DVC41S150	15	2,67	5,34	150	±1	90
DVC41S240-P	DVC41S240	24	1,67	3,34	240	±1	90
DVC41S360-P	DVC41S360	36	1,11	2,22	360	±1	90
DVC41S480-P	DVC41S480	48	0,83	1,66	480	±1	90

NOTE:

Part Number Example:
PIN Version -P have Peak Load Function
TERMINAL Version have not Peak Load Function

INPUT CHARACTERISTICS:

Input Voltage Range.....	90-264Vac / 120-370VDC
Input Frequency.....	47 to 63Hz
Inrush Current (Cold start @ 25°C)	70A Max. @ 240Vac
Leakage Current.....	0,25mA max. @264Vac
Input Current.....	100Vac/1A max; 240Vac/0,55A max.

OUTPUT CHARACTERISTICS:

Line Regulation (Note 3)	±0,5% max.
Load Regulation (Note 4)	±1,0% max.
Hold-up Time	10mS typ. @ 115Vac
Temperature Coefficient.....	±0,05%/°C max.
Short Circuit Protection	Continuous, Hiccup Mode (Auto Recovery)
Over Voltage Protection	TVS Component to Clamp
Start-up time	115VAC<2sec. typ. / 230Vac<1sec. typ.
Switching Frequency.....	65KHz typ.

GENERAL CHARACTERISTICS:

Efficiency	see table
Isolation Input/Output	3000VAC
Operating Temperature Range	-40°C to +85°C
Derating	see curve
Storage Temperature Range	-40°C to +85°C
Cooling.....	Natural Convection
Humidity	93% RH max. non condensing
MTBF (MIL-STD-217F, GB, 25°/115Vac).....	350K hrs. min.
Altitude.....	5000m

SAFETY & EMISSION:

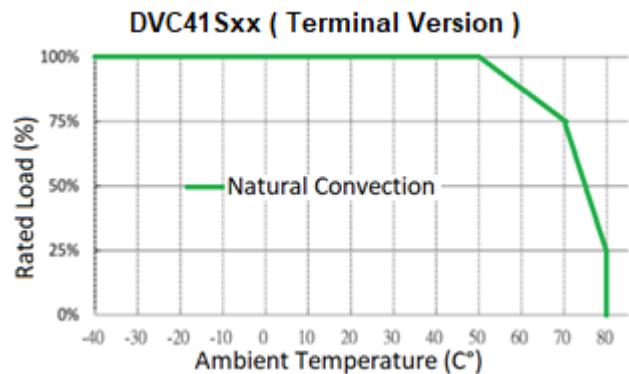
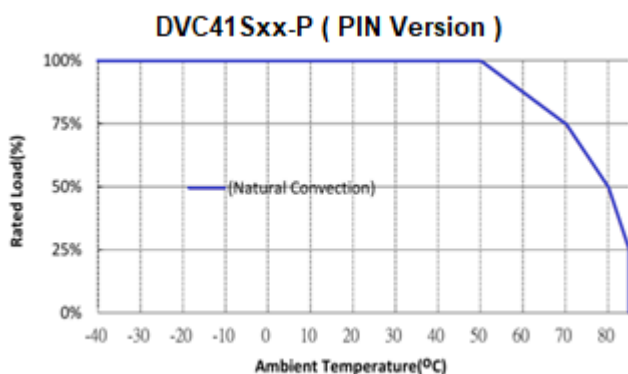
Emission and Immunity	EN55032 Class B, FCC Part 15 Class B EN61000-3-2, EN61000-3-3, EN61000-6-1, EN61000-6-2 EN61000-6-3, EN61000-6-4, EN55024, EN61204-3 Class II, EN62368-1, IEC62368-1, UL62368-1
Safety Approved.....	
Safety Meets	IEC/EN60335-1

MECHANICAL SPECIFICATIONS:

Dimensions:	
Pin Version -P:.....	50,80 x 50,80 x 25,60 (mm)
Terminal Version:	68,58 x 50,80 x 23,90 (mm)
Weight:	
Pin Version -P:.....	61g typ.
Terminal Version:	64g typ.

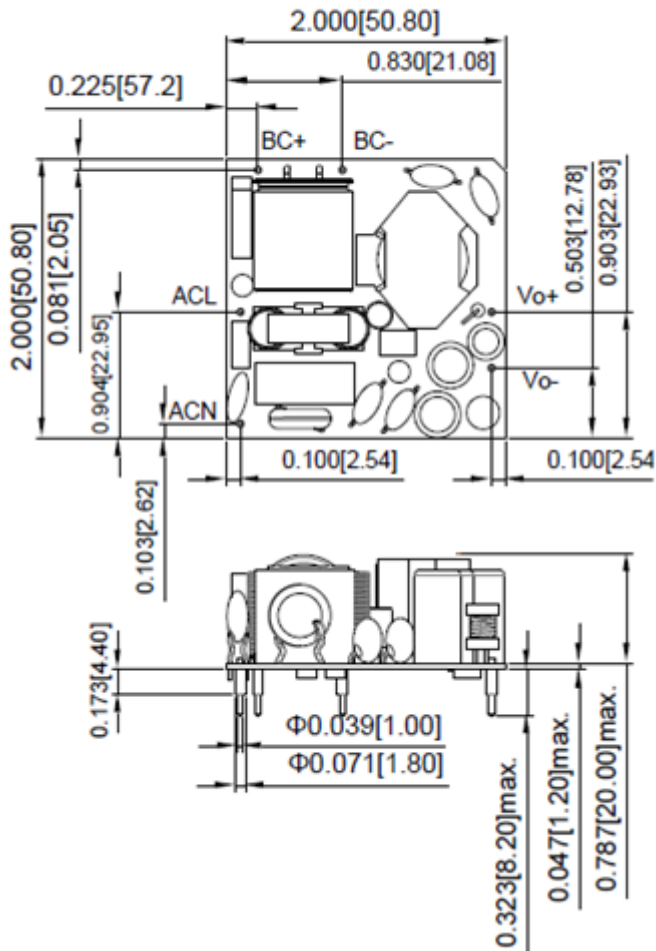
NOTE:

1. Voltage Accuracy is set of 100% rated load.
2. Add a 0,1µF ceramic capacitor and a 10 µF E.L. capacitor to output for Ripple & Noise Measuring @ 20MHz BW.
3. Line Regulation is measured from High Line to Low Line with Full Load.
4. Load Regulation is measured from 10% to 100% load.
5. Typical efficiency at 230VAC and full load at 25°C.
6. PL (Peak load function) last time < 10 seconds with a max. 10% duty cycle and must add external 68µF/400V capacitor to BC+ & BC-.
7. DVC41-xx input and output connectors (CN1 and CN2) wafer with TAIWAN KING PIN TERMINAL PVHI series and mate with JST housing VHR series or equivalent.
8. Typical at 25°C, nominal line and 75% load, unless otherwise specified.



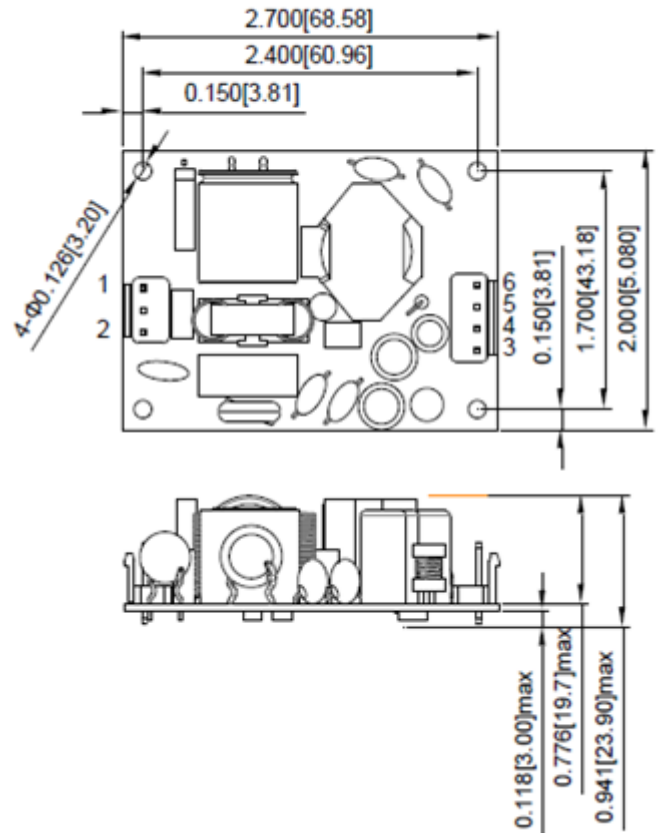
All Dimensions are in inches[mm]
 Tolerance:Inches:X.XXX ±0.02 , Millimeters:X.XX±0.5

DVC41Sxx-P



DVC41Sxxx-P	
Pin	Output
1	AC-L
2	AC-N
3	+Vout
4	-Vout
5	BC+
6	BC-

DVC41Sxx



DVC41Sxx	
Pin	Output
1	AC-L
2	AC-N
3	-Vout
4	-Vout
5	+Vout
6	+Vout