



40 Watt (80 Watt (Note 6)), Regulated AC/DC Open Frame Series DVC41



Features

- Universal Input Range 90 – 264Vac
- Size 50,80 x 50,80 (mm)
- Meets EN55032 Class B / CIRSS/FCC Class B
- Safety IEC/EN/UL62368-1
- Meets IEC/EN60335-1
- Over Voltage Protection
- Continuous Short Circuit Protection
- Peak Load (2 times of rated current (Note 6))
- No Load Power Consumption < 0,15W
- 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) [%]	CASE
DVC41S050-P	DVC41S050	5	6	12	100	±2	87	CL
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: for Peak Load Function, please add **-PL**, for example DVC41S050-P-PL

INPUT CHARACTERISTICS:

Input Voltage Range.....	90-264Vac / 120-370VDC
Inrush Current (Cold start @ 25°C)	70A Max. @ 240Vac
Input Frequency.....	47 to 63Hz
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
Short Circuit Protection	Hiccup Mode (Auto Recovery)
Over Voltage Protection	TVS Component to Clamp
Start-up time	115VAC<2sec. typ. / 230Vac<1sec.

GENERAL CHARACTERISTICS:

Efficiency	see table
Switching Frequency	65KHz typ.
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.
Life time	26000 hours min. @ 75% Load, 40°C
Altitude	5000m

SAFETY & EMISSION:

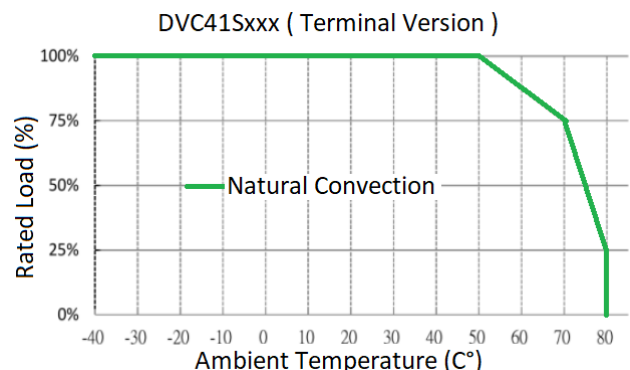
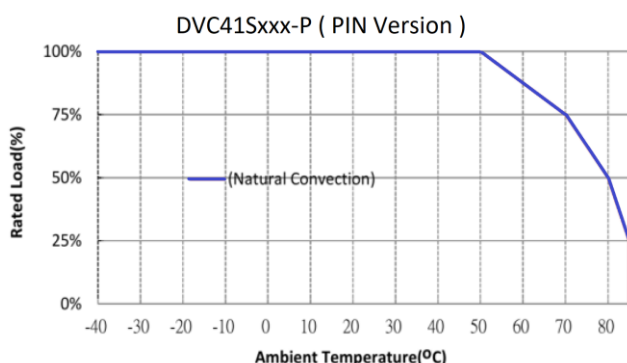
Emission and Immunity	EN55032 Class B, FCC Part 15 Class B EN61000-3-2, EN61000-3-3, EN61000-6-1, EN61000-6-2 EN61000-6-3, EN61000-6-4, EN55024, EN61204-3
Safety	Class II, EN62368-1, IEC62368-1, UL62368-1

MECHANICAL SPECIFICATIONS:

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

NOTE:

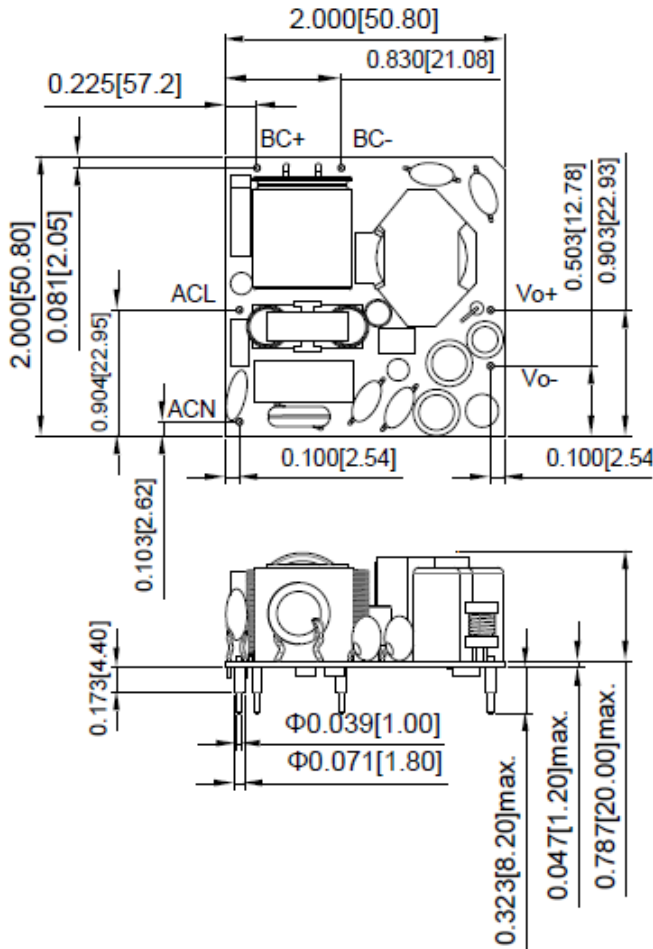
1. Voltage Accuracy is set of 100% rated load.
2. Add a 0,1µF ceramic capacitor and a 10 µF E.L. capacitor to output for Ripple & Noise Measuring @ 20MHz BW.
3. Line Regulation is measured from High Line to Low Line with Full Load.
4. Load Regulation is measured from 10% to 100% load.
5. DVC41-xxx input and output connectors (CN1 and CN2) wafer with TAIWAN KING PIN TERMINAL PVHI series and mate with JST housing VHR series or equivalent.
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. Typical at 25°C, nominal line and 75% load, unless otherwise specified.



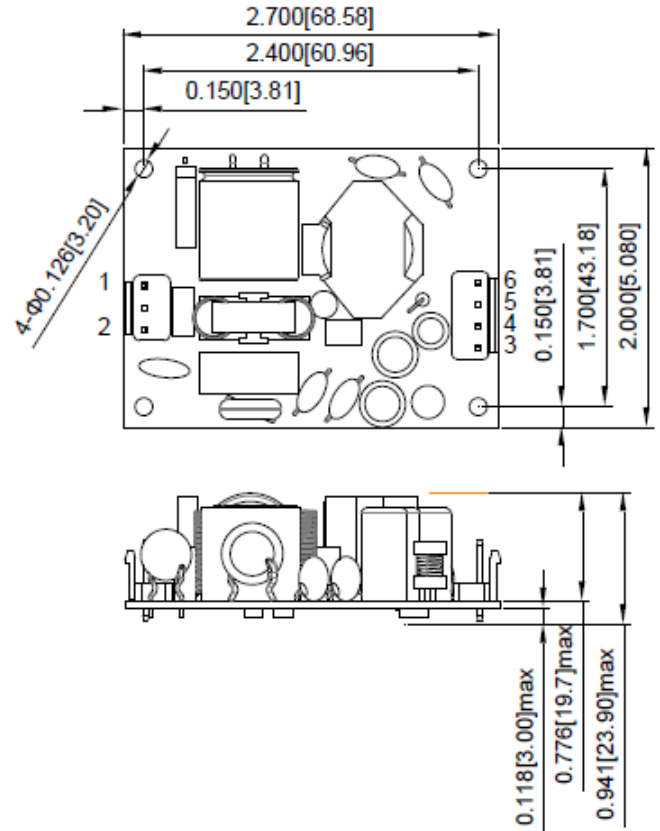
Unit: mm [inch]

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

DVC41Sxxx-P



DVC41Sxxx



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

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