



## 80 Watt Open Frame AC/DC Modules Series DVC80



### Features

- Universal Input Range 90 – 264Vac
- Miniature Size, 2"x4"
- No Load Power Consumption < 0,5W
- UL/IEC/EN62368-1
- Meet EN55032 Class B and CISPR/FCC Class B
- Over Voltage Protection
- Continuous Short Circuit Protection
- High Efficiency 90%
- Meet EN61000-3-2, Class A

MODEL NUMBER	OUTPUT VOLTAGE [VDC]	OUTPUT CURRENT MAX. [A]	VOLTAGE ADJ. RANGE [V]	RIPPLE & NOISE NOTE 2 [%]	VOLTAGE ACCURACY NOTE 1 [%]	EFF. TYP. NOTE 5 [%]	Output Rated POWER [W]
DVC80S050	5	12	4,75-5,25	1	±1	86	60
DVC80S120	12	6,7	11,4-12,6	1	±1	89	80
DVC80S150	15	5,36	14,25-15,75	1	±1	90	80
DVC80S240	24	3,35	22,8-25,2	1	±1	90	80
DVC80S480	48	1,67	45,6-50,4	1	±1	90	80

### INPUT CHARACTERISTICS:

Input Voltage Range..... 90-264Vac / 120-370Vdc  
 Input Frequency ..... 47 to 63Hz  
 Inrush Current ( Cold start @ 25°C )..... 100A max. @240Vac  
 Input Current ..... 100A/1,5A max. , 240Vac/0,8A max.  
 Leakage Current..... 3,5 mA max.

### GENERAL CHARACTERISTICS:

Efficiency..... see table  
 Switching Frequency ..... 100KHz typ.  
 Operating Temperature Range ..... -20°C to +80°C  
 Derating ..... see curve  
 Storage Temperature Range ..... -20°C to +85°C  
 Cooling..... Natural Convection  
 Humidity ..... 93% RH max. non condensing  
 Isolation Voltage (Input/Output) ..... 3000 VAC

### OUTPUT CHARACTERISTICS:

Voltage Accuracy ..... ±1,0% max.  
 Output Current Min. Load ..... 0 mA  
 Line Regulation (note3) ..... ±0,5%  
 Load Regulation (note4) ..... ±1,0%  
 Hold-up Time..... 12mS typ @ 115Vac  
 Short Circuit Protection..... Hiccup Mode (Auto Recover)  
 Over Voltage Protection..... TVS Component to Clamp  
 Temperature Coefficient ..... ±0,05%/°C

### SAFETY & EMISSION:

Emission and Immunity ..... EN55032 Class B, FCC Part 15 Class B  
 EN61000-6-3, EN61000-3-3, EN61000-3-2  
 EN55024, EN61204-3, EN61000-6-1  
 Safety Approvals ... Class I, UL/IEC/EN60950-1, UL/IEC/EN62368-1

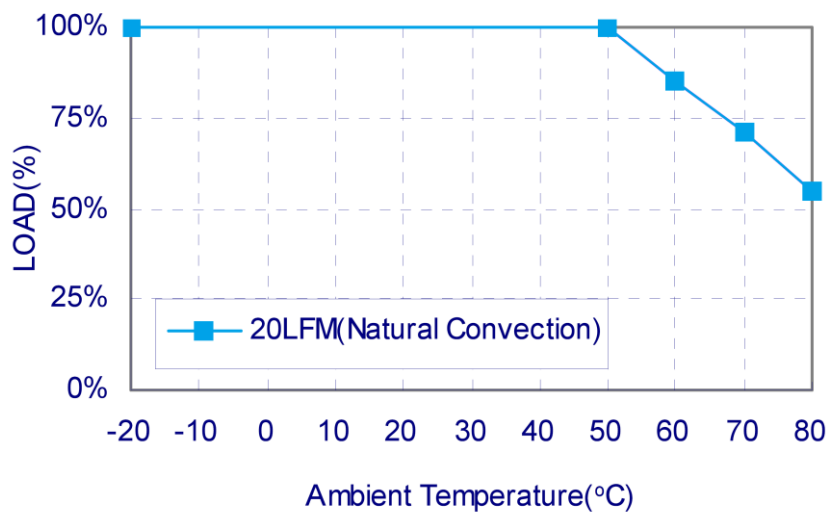
### MECHANICAL SPECIFICATIONS:

Dimensions ..... 4.000x.2.000x1.07 (inches), 101,6x50,8x27,1 (mm)  
 -P (Pin Version)4.000x.2.000x1.142 (inches), 101,6x50,8x29,0 (mm)  
 Weight..... 155 g typ.

### NOTE:

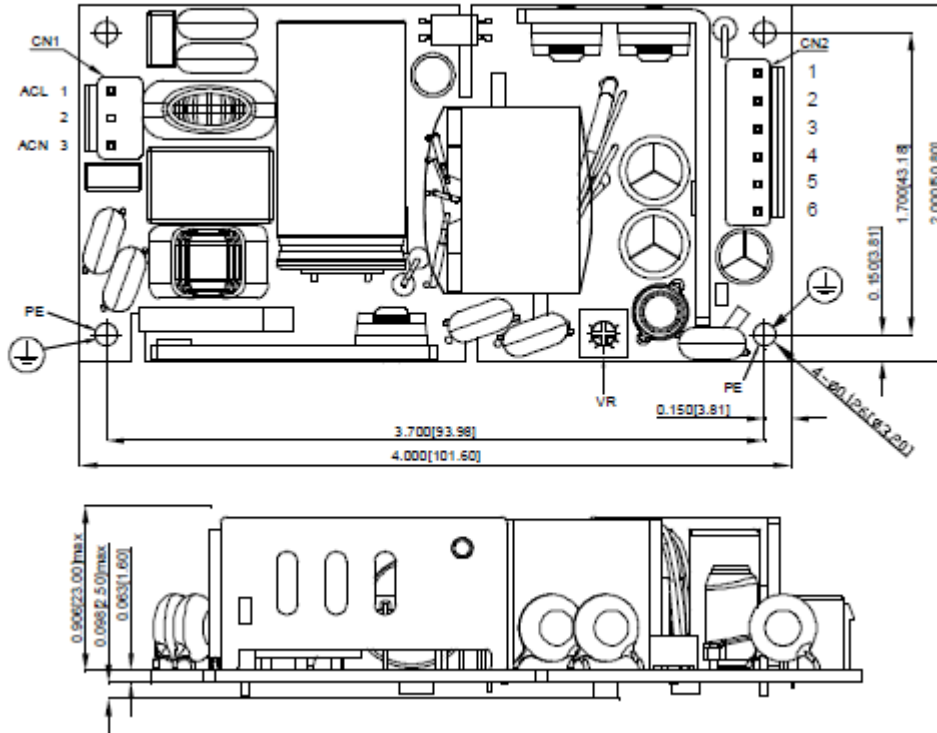
1. Voltage Accuracy is set at full load.
2. Add a 0,1µF ceramic capacitor and a 10 µF E.L. capacitor to output for Ripple & Noise Measuring @ 20MHz BW.
3. Line regulation is measured from high line to low line with full load.
4. Load regulation is measured from 10% to 100% full load.
5. Typical efficiency at 230 VAC and full load at 25°C.
6. Standard input and output connectors (CN1 & CN2) wafer with TAIWAN KING PIN TERMINAL PVHI series and mate with JST housing VHR series and JST SVH-21/41T-P1.1 series crimp terminal or equivalent.
7. Typical at 25°C, nominal line and 75% load, unless otherwise specified.

Derating curve for Natural Convection



All Dimensions are in Inches (mm)  
 Tolerances: Inches x.xxx±0.02  
 mm x.xx±0.5

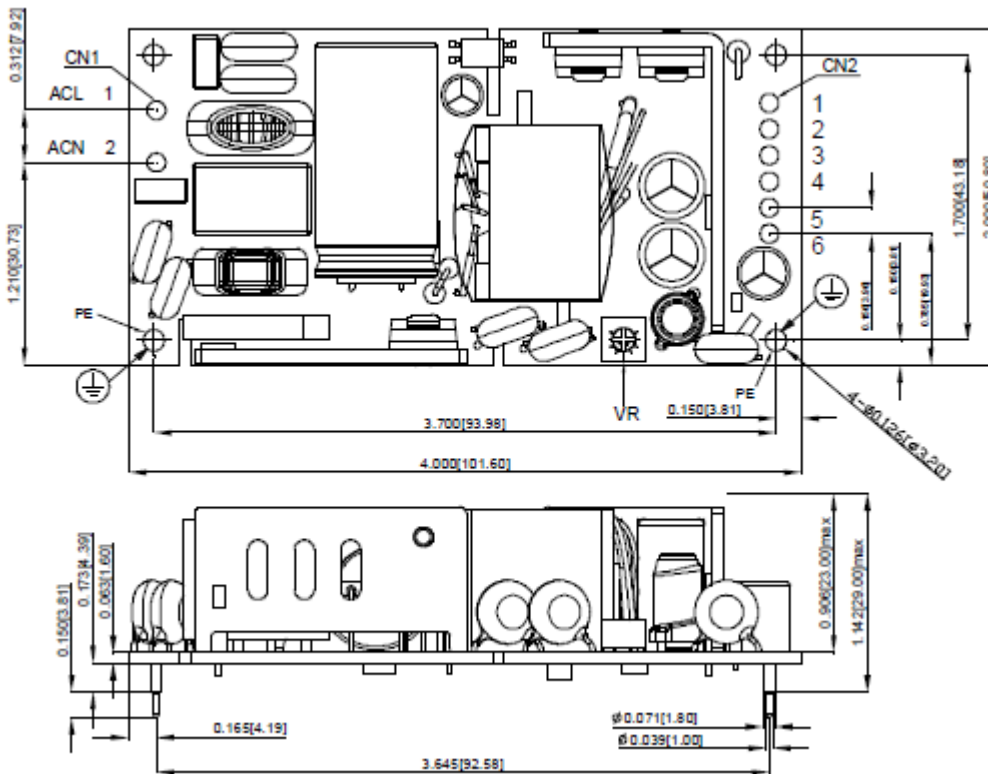
## DVC80Sxxx



PIN CONNECTION CN 1	
Pin	Function
1	AC (L)
2	NC
3	AC (N)

PIN CONNECTION CN 2	
Pin	Function
1	+Vout
2	+Vout
3	+Vout
4	-Vout
5	-Vout
6	-Vout

## DVC80Sxxx-P



PIN CONNECTION CN 1	
Pin	Function
1	AC (L)
2	AC (N)

Technische Änderung vorbehalten / Technical change reserved