



## 60 Watt, Regulated AC/DC Open Frame Series DVC61



### Features

- Universal Input Range 90 – 264Vac
- Size 50,80 x 50,80 (mm)
- Meets EN55032 Class B / CIRSS/FCC Class B
- Continuous Short Circuit Protection
- Safety Approval UL62368-1
- Over Voltage Protection
- High Efficiency 90%
- Peak Load (2 times of rated current (Note 6))
- Class II

MODEL NUMBER		OUTPUT VOLTAGE [ VDC ]	OUTPUT CURRENT [ A ] MAX.	OUTPUT CURRENT [ A ] MIN.	RIPPLE & NOISE [ mV ] (Note 2)	VOLTAGE ACCURACY [ % ] (Note 1)	EFF. [ % ] (Note 7)
PIN	TERMINAL						
DVC61S050-P	DVC61S050	5	8	0	50	±2	86
DVC61S120-P	DVC61S120	12	5	0	120	±1	88
DVC61S150-P	DVC61S150	15	4	0	150	±1	88
DVC61S240-P	DVC61S240	24	2,5	0	240	±1	89
DVC61S360-P	DVC61S360	36	1,67	0	360	±1	89
DVC61S480-P	DVC61S480	48	1,25	0	480	±1	90

NOTE: For Peak Load Function, please add -PL ( only Pin Models ) , for example DVC61S480-P-PL  
Other outputs on request.

### INPUT CHARACTERISTICS:

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

### GENERAL CHARACTERISTICS:

Efficiency.....	see table
Switching Frequency .....	65KHz typ.
Isolation Input/Output .....	3000VAC
Operating Temperature Range.....	-30°C to +70°C
Derating above.....	50°C (see curve)
Storage Temperature Range .....	-30°C to +85°C
Cooling.....	Natural Convection
Humidity .....	93% RH max. non condensing
MTBF (MIL-STD-217F, GB, 25°/115Vac) .....	300K hrs. min.
Altitude.....	5000m

### OUTPUT CHARACTERISTICS:

Line Regulation (Note 3).....	±1,0% 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) .....	TVS Component to Clamp
Start-up time.....	<2,0sec typ. at 115Vac / <1,0sec typ. at 230Vac

### SAFETY & EMISSION:

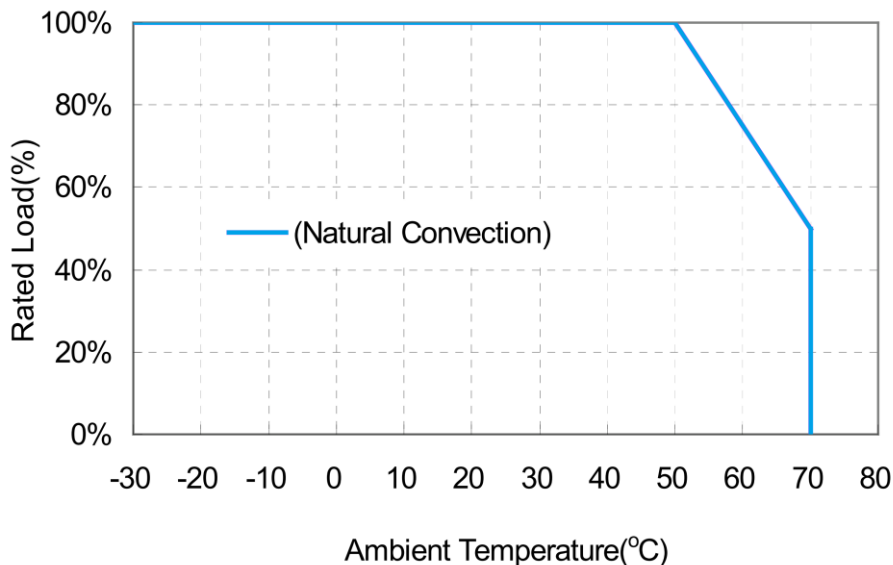
Emission and Immunity .....	EN55032 Class B, FCC Part 15 Class B
	EN61000-3-2, EN6100-3-3, EN61000-6-3, EN61000-6-4
Immunity .....	EN55024, EN61204-3, EN61000-6-1, EN61000-6-2
Safety.....	IEC62368-1, UL62368-1

### MECHANICAL SPECIFICATIONS:

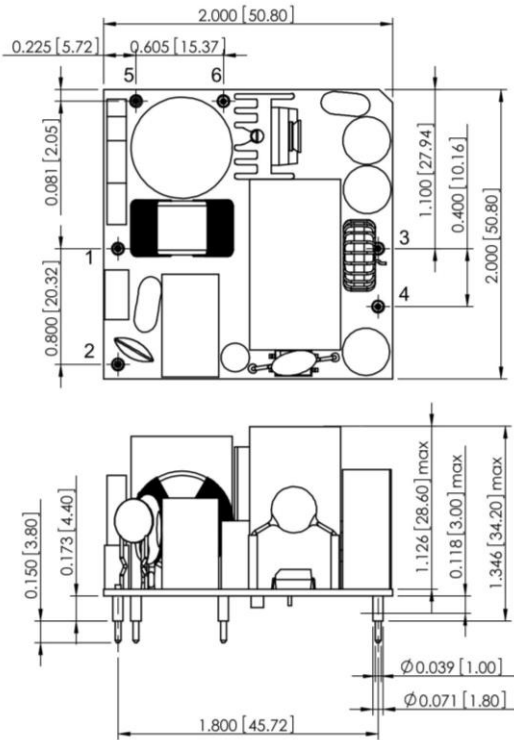
Dimensions (Pin Version) .....	50,80 x 50,80 x 34,20 (mm)
Dimensions (Terminal Version).....	68,58 x 50,80 x 32,80 (mm)
Weight (Pin Version).....	93g typ.
Weight (Terminal Version).....	96g typ.

#### 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.  
DVC61S050(-P): Add a 0.1µF ceramic capacitor and 47µF E.L. capacitor.
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. Terminal Version 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 100µF/400V capacitor to BC+ & BC-.
7. Typical efficiency at 230Vac and full load at 25°C.
8. Typical at 25°C, nominal line and 75% load, unless otherwise specified.

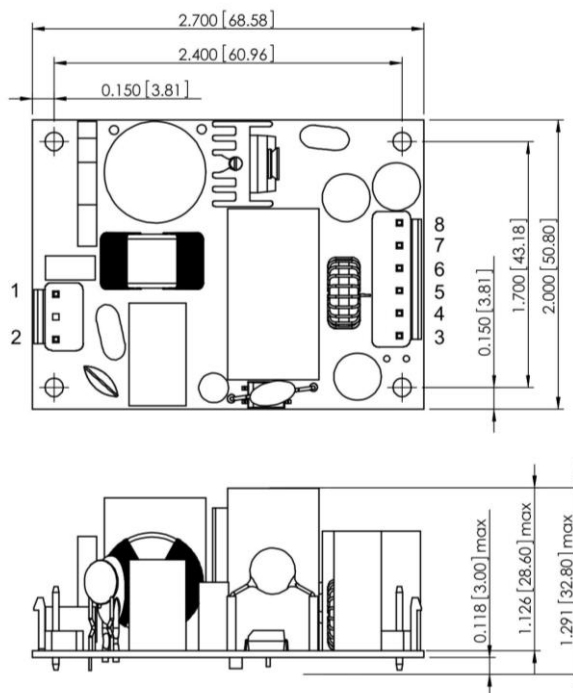


Unit: mm [inch]  
 Tolerance: Inches: x.xxx=±0.02  
 Millimeters: x.xx=±0.5



Pin	Connection PIN Model
1	AC-L
2	AC-N
3	+Vout
4	-Vout
5	BC+
6	BC-

# Mechanical Dimension (Terminal Version)



Pin	Connection TERMINAL Model
1	AC-L
2	AC-N
3	-Vout
4	-Vout
5	-Vout
6	+Vout
7	+Vout
8	+Vout