



70 Watt, Open Frame AC/DC Modules Series DVC70



Features

- Universal Input Range 90 – 264Vac
- Size 76,20 x 50,80 (mm)
- No Load Input Power < 0,15W
- Meets IEC/EN60335-1
- Safety Meets IEC/EN/UL62368-1
- Safety Approved IEC/EN/UL62368-1 only DVC70Sxx
- High Efficiency up to 91%
- Over Voltage Protection
- Continuous Short Circuit Protection
- Meets EN55032 Class B / CIRSS/FCC Class B
- Meets Class I and II

MODEL NUMBER TERMINAL CONNECTOR	MODEL NUMBER PIN -P	MODEL NUMBER COVER -C (Note 7)	OUTPUT VOLTAGE [VDC]	OUTPUT CURRENT [A] MAX.	RIPPLE & NOISE [mV p-p] (Note 2)	VOLTAGE ACCURACY [%] (Note 1)	LOAD CAP. [μ F] (Note 8)	EFF. [%] (Note 5)
DVC70S05	DVC70S05-P	DVC70S05-C	5	10	150	± 2	10300	86
DVC70S12	DVC70S12-P	DVC70S12-C	12	5,8	120	± 2	6000	90
DVC70S15	DVC70S15-P	DVC70S15-C	15	4,65	150	± 1	4700	90
DVC70S24	DVC70S24-P	DVC70S24-C	24	2,92	240	± 1	2920	90
DVC70S36	DVC70S36-P	DVC70S36-C	36	1,94	360	± 1	1980	90
DVC70S48	DVC70S48-P	DVC70S48-C	48	1,46	480	± 1	930	91

NOTE:

1. Voltage accuracy is set at 100% full load.
2. Add a 0.1 μ F ceramic capacitor and a 10 μ F E.L. capacitor to output for ripple & noise measurement @20MHz BW.
3. Line regulation is measured from 90Vac to 264Vac with 100% full load.
4. Load regulation is measured from 10% to full load.
5. Typical efficiency at 230 Vac and 100% full load at 25°C.
6. Standard input and output connectors (CN1 and CN2) wafer with TAIWAN KING PIN TERMINAL PVHI series and mate with JST housing VHR series and JST SVH-41T-P1.1 series crimp terminal and output connectors wire 16AWG.
7. Safety approvals do not apply to the covered version only to the Terminal Versions.
8. Vin=115Vac and 230Vac, Output is max. load

INPUT CHARACTERISTICS:

Input Voltage Range..... (Safety approvals only to the AC input)	90-264Vac / 120-370VDC
Input Frequency	50 to 60Hz
Inrush Current	V _{in} =240Vac, Cold start at 25°C..... 130A typ.
Leakage Current.....	0,1mA max.
Input Current	100% Load, V _{in} =100Vac..... 1,5A max.

OUTPUT CHARACTERISTICS:

Line Regulation (Note 3).....	V _{in} =High Line to Low Line.....	±0,5% max.
Load Regulation (Note 4)	10% Load to Full Load.....	±1,0% max.
Hold-up Time.....	V _{in} =115V _{ac}	10ms typ.
Over Voltage Protection		Hiccup mode (Auto Recovery)
Short Circuit Protection.....		Continuous, (Auto Recovery)

GENERAL CHARACTERISTICS:

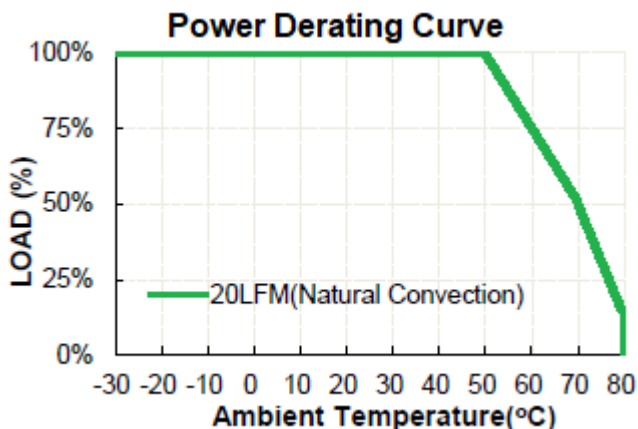
Efficiency.....		see table
Isolation Input/Output	1 minute.....	3000VAC max.
Isolation Resistance Input/Output		100MΩ min.
Switching Frequency		65KHz typ.
Operating Temperature Range.....		-30°C to +80°C
Derating		see curve
Storage Temperature Range		-30°C to +85°C
Cooling.....		Natural Convection
Humidity.....	Non-condensing	93% RH max.
MTBF	I _o =100%; T _a =25°C per MIL-HDBK-217F.....	500K hrs. min.
Altitude	IEC/EN/UL 62368-1	5000m max.
	Meets IEC/EN/UL 60335-1.....	3000m max.
Shock	Meet MIL-STD-810F.....	75g typ.
Vibration.....	Meet MIL-STD-810F.....	4g typ.

SAFETY & EMISSION:

Safety Approved.....	only Terminal Versions	Class I, Class II, IEC/EN/UL62368-1
Safety Meets	-C Covered & -P Pin Version	Class I, Class II, IEC/EN/UL62368-1
Safety Meets		IEC/EN 60335-1
EMC Emission.....	EN55032 Class B, 47 CFR FCC Part 15 Subpart B, N 61000-3-2 , EN 61000-3-3	
Conducted Disturbance.....	EN 55032 Class B, 47 CFR FCC Part 15	
Radiated Disturbance.....	EN 55032 Class B, 47 CFR FCC Part 15	
Harmonic Current Emissions.....	EN 61000-3-2	
Voltage Fluctuations & Flicker	EN 61000-3-3	
EMC Immunity.....	EN 55035	
Electrostatic Discharge (ESD)	IEC 61000-4-2 , Air Discharge: ±8kV, Contact Discharge: ±4kV	
Radio-Frequency, Continuous , Radiated Disturbance	IEC 61000-4-3	
Electrical Fast Transient (EFT)	IEC 61000-4-4 , ±0.5kV, ±1kV, ±2kV	
Surge	IEC 61000-4-5 , L-N: ±0.5kV, ±1kV, L-E(Ground): ±0.5kV, ±1kV, ±2kV	
Conducted Disturbances, Induced by RF Fields	IEC 61000-4-6	
Power Frequency Magnetic Field	IEC 61000-4-8	
Voltage Dips.....	IEC 61000-4-11 , Dip: 30% Reduction, Dip >95% Reduction	
Voltage Interruptions	IEC 61000-4-11 , >95% Reduction	

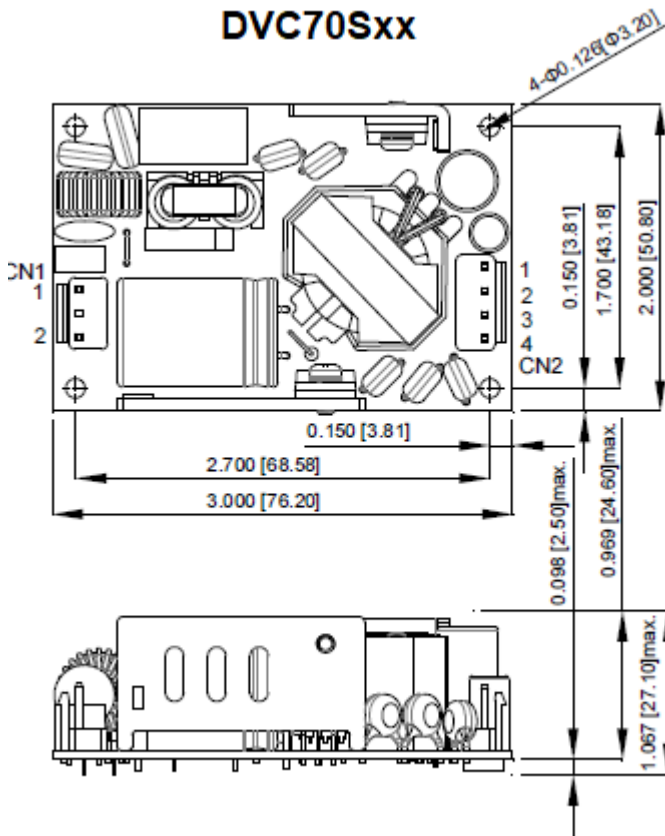
MECHANICAL SPECIFICATIONS:

Dimensions:	
Terminal Version:	76,20 x 50,80 x 27,10 (mm)
Pin Version -P:	76,20 x 50,80 x 29,00 (mm)
Cover Version -C:.....	81,28 x 62,00 x 40,00 (mm)
Weight:	
Terminal Version:	97g typ.
Pin Version -P:	95g typ.
Cover Version -C:.....	136g typ.



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

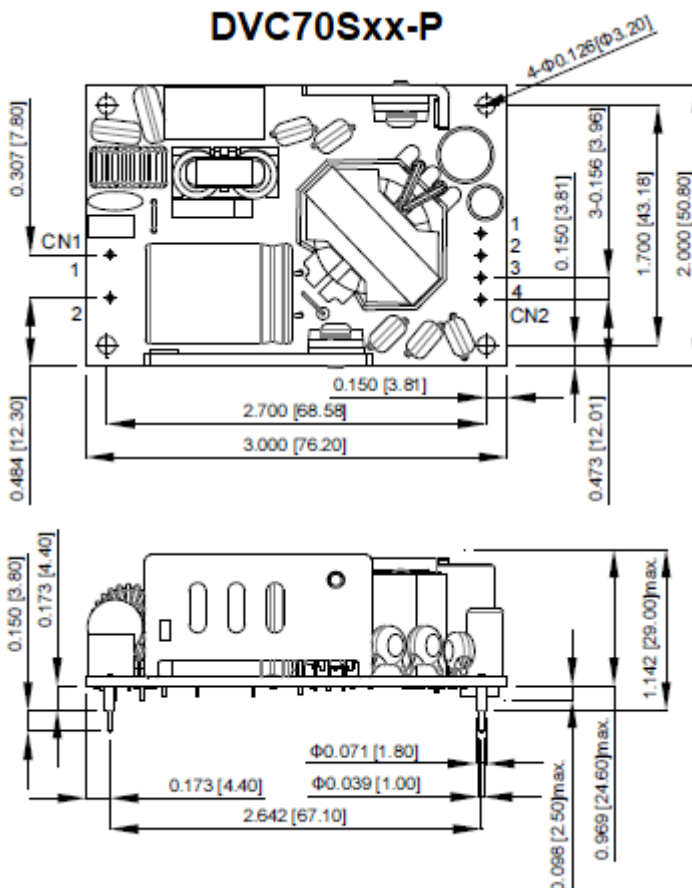
DVC70Sxx



CN1	CONNECTION
Pin	Function
1	AC-L
2	AC-N

CN2	CONNECTION
Pin	Function
1	+Vout
2	+Vout
3	-Vout
4	-Vout

DVC70Sxx-P



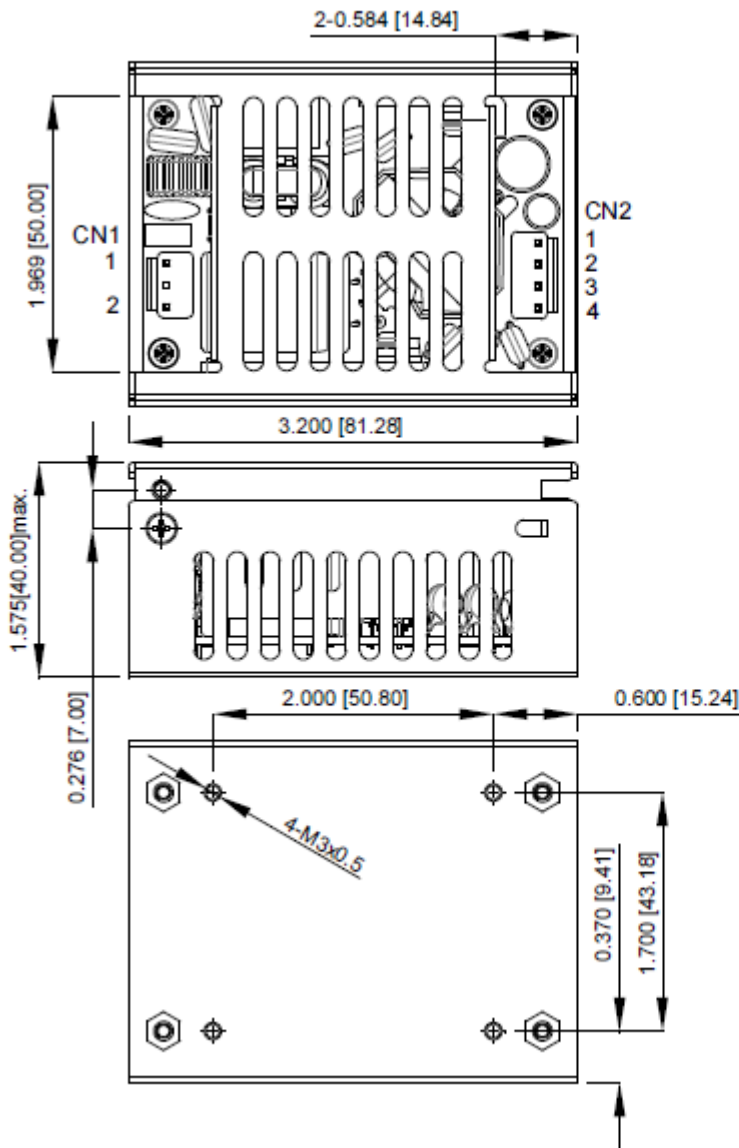
CN1	CONNECTION
Pin	Function
1	AC-L
2	AC-N

CN2	CONNECTION
Pin	Function
1	+Vout
2	+Vout
3	-Vout
4	-Vout

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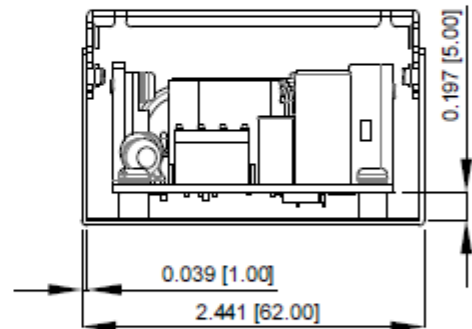
All Dimensions are in inches[mm]
 Tolerance:Inches:X.XXX ±0.02 , Millimeters:X.XX±0.5

DVC70Sxx-C



CN1 CONNECTION	
Pin	Function
1	AC-L
2	AC-N

CN2 CONNECTION	
Pin	Function
1	+Vout
2	+Vout
3	-Vout
4	-Vout



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