



200 Watt Open Frame AC/DC Power Supply Series DVC200



Feature

- Wide Input Range 90 – 264 VAC
- 2"x4" Open Frame Compact Size
- Active PFC Function
- No Load Input Power Consumption <150mW
- Isolation I/O 4000VAC
- Approval IEC/EN/UL62638-1
- Meets IEC/EN60335-1
- 150W – 180W with Natural Cooling
- 200W with Fan-Cooled
- Efficiency up to 94%
- Over Temperature Protection
- Over Voltage Protection
- Continuous Short Circuit Protection
- Meets Class I & Class II

MODEL NUMBER	OUTPUT VOLTAGE [VDC]	OUTPUT VOLTAGE [A] MAX.			VOLTAGE ACCURACY [%] (Note 2)	RIPPLE & NOISE [mV] (Note 3)	EFF. [%] TYP. (Note 4)	LOAD CAPACITANCE [µF] MAX. (Note 5)
		With FAN (Note 1)	Without FAN COVER (-C)	Without FAN OPEN (-B)				
DVC200S12-B	12	16,66	15,0	12,5	1	120	92	16670
DVC200S24-B	24	8,33	7,5	6,25	1	240	93	8330
DVC200S28-B	28	7,14	6,42	5,35	1	280	93	7140
DVC200S36-B	36	5,56	5,0	4,16	1	360	93	5660
DVC200S48-B	48	4,17	3,75	3,12	1	480	94	4170
DVC200S56-B	56	3,58	2,67	2,67	1	560	94	3580

Note:

1. Forced air convection with 10CFM.
2. Voltage accuracy is set at 100% full load.
3. Add a 0.1uF ceramic capacitor and a 10uF E.L. capacitor to output for ripple & noise measuring @20MHz BW.
4. Typical efficiency at 230 Vac and 75% full load at 25°C.
5. Input voltage is 115Vac and 230Vac. Output is 100% full load
6. Standard input and output connectors (CN1 and CN2) wafer with TAIWAN KING PIN TERMINAL PVHI series and mate with JST housing VHR series or equivalent.
7. Conductive: Class I & Class II meets Class B Radiation: Class I meet Class B, Class II meet Class A.

Part Number Example:

DVC200S12-B: With Baseplate, 200W, 12Vdc Output
DVC200S12-C: With Case, 200W, 12Vdc Output

INPUT SPECIFICATIONS:

Input Voltage Range.....	90 – 264 VAC
Input Frequency	47-63Hz
Power Factor.....	100% Load, Vin=230Vac.....0,9 min.
Input Current	100% Load, Vin=100Vac.....2,5A max.
Leakage Current	(Touch) 100µA max.
Inrush Current ...	Vin=240Vac,Cold Start at 25°C..... 100A typ.
Under Voltage Protection	60V min. / 75V max.

OUTPUT SPECIFICATIONS:

Output Voltage Accuracy.....	Vin=90 - 264Vac, Io=Io max..... ±1,0% max.
Hold-up Time.....	Vin=115Vac..... 12msec. typ.
Line Regulation	Vin=High Line to low line..... ±0,5% max.
Load Regulation	10% to Full load..... ±1,0% max.
Over Voltage Protection (Clamp Output Voltage).....	Vout 12V..... 13,5 Vdc typ.
	Vout 24V..... 30 Vdc typ.
	Vout 28V..... 35 Vdc typ.
	Vout 36V..... 42 Vdc typ.
	Vout 48V..... 56 Vdc typ.
	Vout 56V..... 59 Vdc typ.
Over Current Protection.....	Auto Recovery..... 150% typ.
Short Circuit Protection.....	Auto Recovery..... Continuous

GENERAL SPECIFICATIONS:

Efficiency.....	see table
Isolation Voltage Input/Output.....	1 minute (without dielectric breakdown)..... 4000 VAC max.
Isolation Voltage Input/Earth (Ground).....	1 minute (without dielectric breakdown)..... 2500 VAC max.
Isolation Voltage Output/ Earth (Ground).....	1 minute (without dielectric breakdown)..... 360 VAC max.
Isolation Resistance	Input to Output..... 100MΩ min.
Switching Frequency	115 KHz typ.
Operating Case Temperature See Derating Curve, Vin=90Vac, Operate@.....	-30°C to +80°C
Storage Temperature	-40°C to +85°C
Humidity	Non condensing..... 93% RH max.
MTBF	Io=100%; Ta=25°C per MIL-HDBK-217F..... 640K hrs min.
Operating Altitude.....	5000m max.
Shock	Meet MIL-STD-810F..... 75g typ.
Vibration.....	Meet MIL-STD-810F..... 4g typ.

SAFETY & EMISSION:

Safety.....	Class I & II, Approved IEC/EN/UL62368-1, Meet IEC/EN60335-1
EMC Emission.....	EN55032 Class B, 47 CFR FCC Part 15 Subpart B EN 61000-3-2, EN 61204-3, EN 61000-6-3, EN 61000-6-4, EN61204-3
Conducted Disturbance	EN55032 Class B, 47 CFR FCC Part 15 Subpart B (Class I&II Meets Class B)
Radiated Disturbance.....	EN55032 Class B, 47 CFR FCC Part 15 Subpart B (Class I meets Class B, Class II Meets Class A)
Harmonic Current Emissions	EN 61000-3-2
Voltage Fluctuations & Flicker	EN 61000-3-3
EMC Immunity.....	EN55035, EN61000-6-1, EN 61000-6-2, EN 61204-3
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, ±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% 10ms, Dip: 60% 100ms, Dip >95% 5000ms
Voltage Interruptions	IEC 61000-4-11, >95% 5000ms

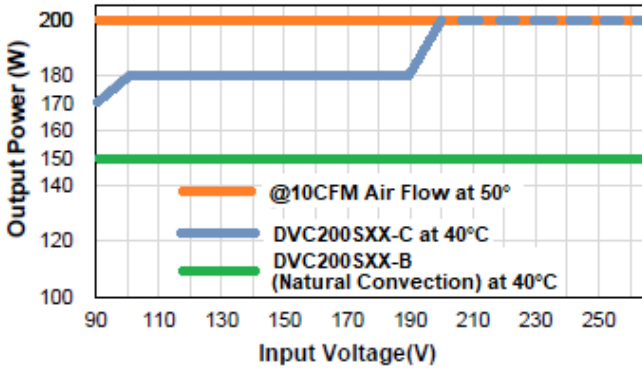
MECHANICAL SPECIFICATIONS:

Dimension (L x W x H).....	With Baseplate (-B) 101,60x50,80x33,30 (mm) / 4,00x2,00x1,311 (Inches)
	With Cover (-C) 116,80x64,00x34,50 (mm) / 4,59x2,520x1,358 (Inches)
Weight.....	With Baseplate (-B).....250g typ.
	With Cover (-C).....330g typ.

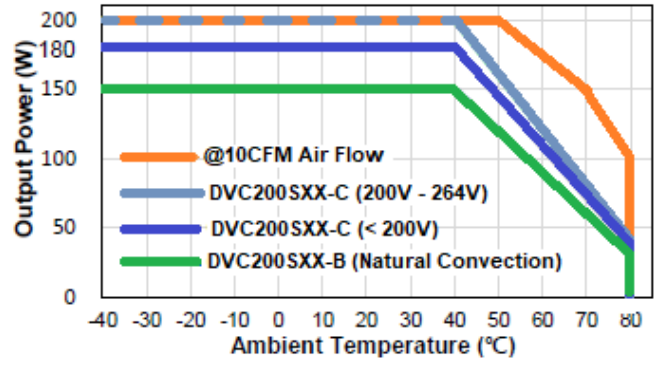
All specifications are typical at nominal input, full load at 25°C unless otherwise noted.

Power Derating Curve

Output power & Input Voltage

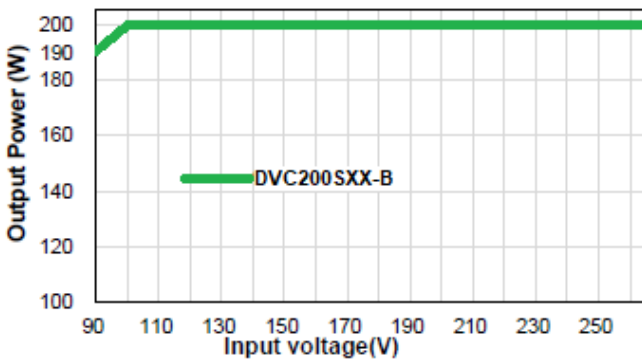


Output power vs Ambient Temperature

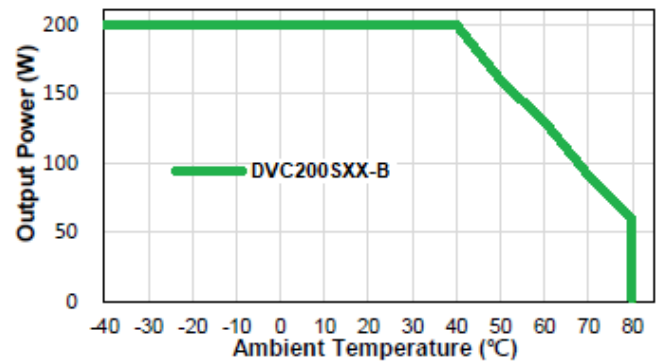


Conduction Convection with External Baseplate (35x20x0.2cm)

Output power & Input Voltage



Output power vs Ambient Temperature

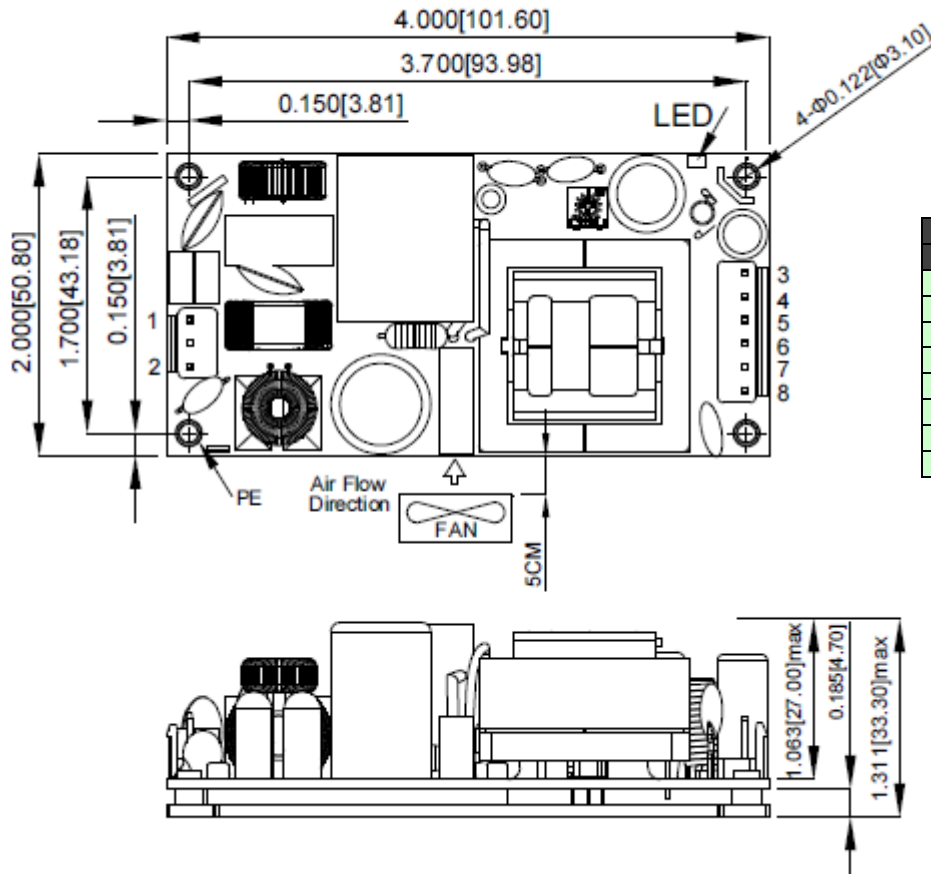


MECHANICAL SPECIFICATIONS

Series DVC200

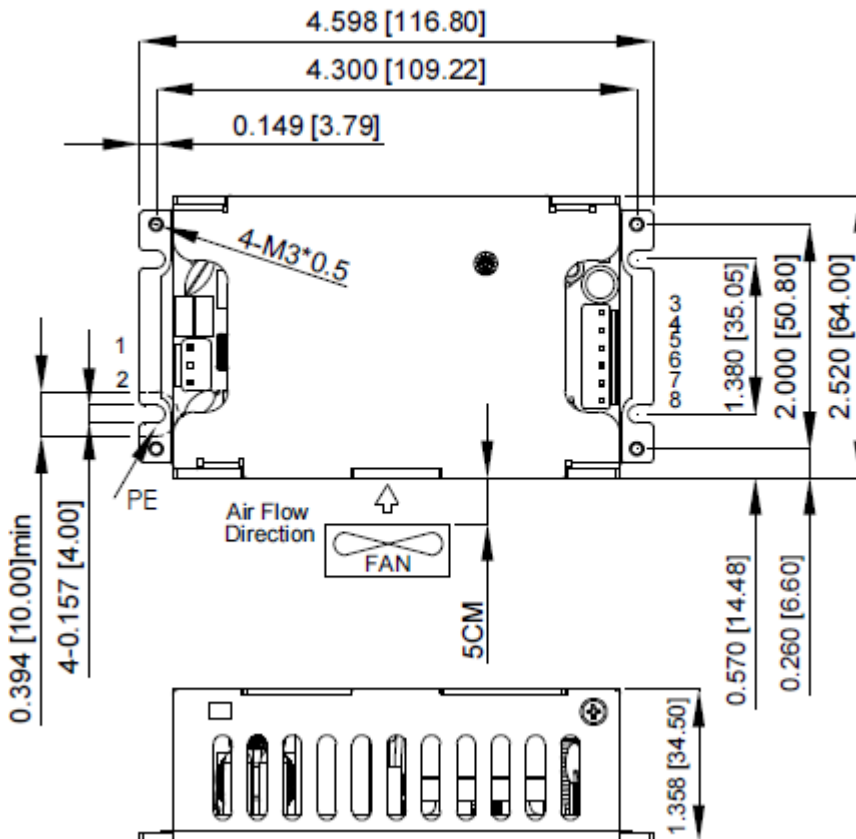
All Dimensions in inches[mm], Tolerance: Inches: $\pm x.xx = \pm 0.02$, Millimeters: $x.x = \pm 0.5$,

DVC200SXX-B



CONNECTION	
Pin	Function
1	ACL
2	ACN
3	+Vout
4	+Vout
5	+Vout
6	-Vout
7	-Vout
8	-Vout

DVC200SXX-C



CONNECTION	
Pin	Function
1	ACL
2	ACN
3	+Vout
4	+Vout
5	+Vout
6	-Vout
7	-Vout
8	-Vout

Technische Änderungen vorbehalten / Technical change reserved