



260 Watt Open Frame AC/DC Power Supply Series DVC260



Features

- Single Output
- Universal Input 85 – 264Vac
- 220W with Natural Convection
- 260W with Fan-Cooled
- No Load Input Power Consumption <0,2W
- 2"x4" Compact Size
- Meet IEC/EN62368-1 / Approved UL62368-1
- Meet EN55032 Class B
- High Efficiency up to 93,5% Typical
- Continuous Short Circuit Protection
- Over Temperature Protection
- Over Voltage Protection
- 12V Fan Output
- Operating Altitude 5000m
- Meet IEC/EN60335-1
- Meet Class I

MODEL NUMBER	OUTPUT VOLTAGE [VDC]	OUTPUT CURRENT WITH FAN (NOTE 1) [A]	OUTPUT CURRENT WITHOUT FAN COVER (NOTE 1) [A]	OUTPUT CURRENT WITHOUT FAN BASE (NOTE 1) [A]	OUTPUT CURRENT WITHOUT FAN OPEN (NOTE 1) [A]	OUTPUT VOLTAGE ADJ. RANGE [VDC]	LOAD CAP. MAX. (NOTE 2) [μF]	EFF. [%] (TYP.)
DVC260S12	12	21,67	18,34	15,84	11,67	11,4 - 12,6	22000	92
DVC260S24	24	10,83	9,17	7,92	5,83	22,8 - 25,2	10880	93,5
DVC260S36	36	7,22	6,11	5,28	3,89	34,2 – 37,8	7220	93
DVC260S48	48	5,42	4,58	3,96	2,92	45,6 - 50,4	3960	93,5
Fan Output Voltage								
All	+12	0,3 (Note6)						

Note:

1. Forced Air Convection with Fan. (Open Frame with 19CFM, Base & Case with 10 CFM)
2. Input Voltage is 115VAC and 230VAC. Output is max. Load.
3. Fan Output can only Operate Normal when the main Output is above 1A.
4. Model Number Examples:
DVC260S24: Open Frame
DVC260S24-B: With Base
DVC260S24-C: With Case

INPUT CHARACTERISTICS:

Input Voltage Range.....	Safety approvals only to the AC input	85-264Vac
Input Frequency Range.....	.....	47 to 63Hz
Input Current.....	.....	3,5A max.
Inrush Current.....	Vin 240Vac, Cold Start at 25°C	150A max.
Leakage Current.....	.....	3,5mA max.

OUTPUT CHARACTERISTICS:

Efficiency .....	.....	see table
Output Voltage Accuracy ... Voltage Accuracy is Set at 60% Rated Load .....	.....	±1,0% max.
Operating Output Current Range.....	.....	See Derating Curve
Hold-up Time .....	.....	16mS typ.
Line Regulation.....	Vin=High Line to Low Line	±0,5% max.
Load Regulation	10% Load to Full Load	±1,0% max.
Over Voltage Protection	Vo 12V	16Vdc max.
	Vo 24V	35Vdc max.
	Vo 36V	50Vdc max.
	Vo 48V	63Vdc max.
Output Ripple & Noise (Note 1)	Vo 12V	120mV max.
	Vo 24V	240mV max.
	Vo 36V	360mV max.
	Vo 48V	480mV max.

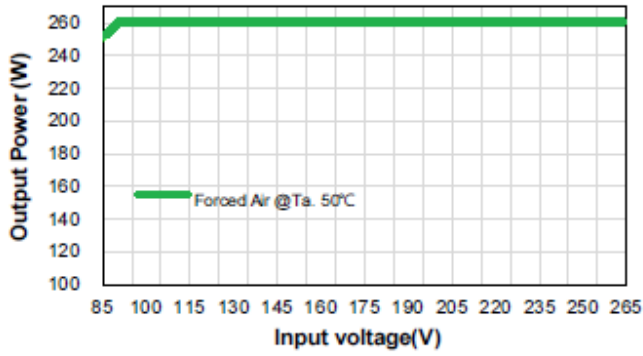
GENERAL SPECIFICATIONS:

Isolation (1 min.)	Input/Output	3000 VAC max.
Isolation Resistance	Input to Output	100 MΩ min.
Switching Frequency .....	.....	100 kHz typ.
Operating Temperature Range	see Derating Curve	-30°C to +80°C
Storage Temperature Range .....	.....	-40°C to +85°C
Humidity	Non condensing	93% RH max.
Operating Altitude.....	IEC/EN/UL 62368-1 / Meets EN 60335-1	5000m
MTBF	MIL-HDBK-217F, Io=100%, Ta=25°C	270Khrs min.
Shock	Meets MIL-STD-810F	75g typ.
Vibration.....	Meets MIL-STD-810F	4g typ.
Safety .....	.....	Class I, Meets IEC/EN62368-1 / Approved UL60950-1
EMC Emission	EN55032 Class B, 47 CFR FCC Part 15 Subpart B, EN61000-3-2, EN61000-3-3, EN61000-6-3, EN61000-6-4, EN61204-3	
Conducted Disturbance.....	EN55032, EN61204-3, EN61000-6-3, EN61000-6-4, Class B, 47 CFR FCC Part 15 Subpart B	
Radiated Disturbance.....	EN55032, EN61204-3, EN61000-6-3, EN61000-6-4, Class B, 47 CFR FCC Part 15 Subpart B	
Harmonic Current Emissions .....	.....	EN61000-3-2
Voltage Fluctuations & Flicker .....	.....	EN61000-3-3
EMC Immunity	EN55035, EN61204-3, EN61000-6-1, EN61000-6-2	
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) .....	.....	IEC61000-4-4, ±1kV, ±2kV
Surge	IEC61000-4-5, 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	
Dimensions	Open frame	4.000x2.000x1.441 Inches (101.60x50.8x36.60mm)
	-B (with Base)	4.598x2.000x1.520 Inches (116.80x50.8x38.60mm)
	-C (with Case)	4.598x2.520x1.594 Inches (116.80x64.00x40.50mm)
Weight.....	Open frame	245g typ.
	-B (with Base)	280g typ.
	-C (with Case)	332g typ.

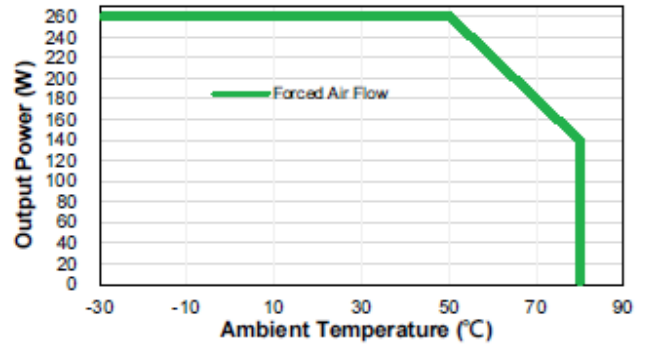
Note:

1. Add a 0.1uF Ceramic Capacitor and a 10uF E.L. Capacitor to Output for Ripple & Noise Measuring @20MHz BW

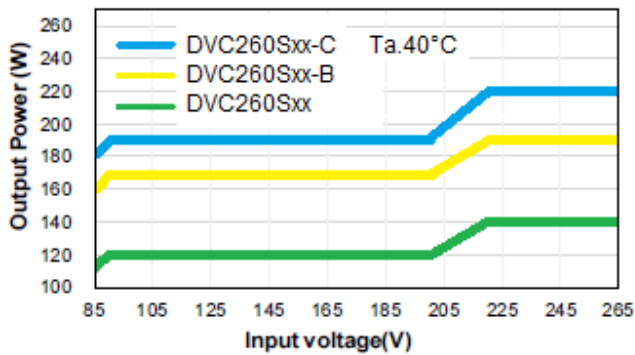
Forced Air Flow



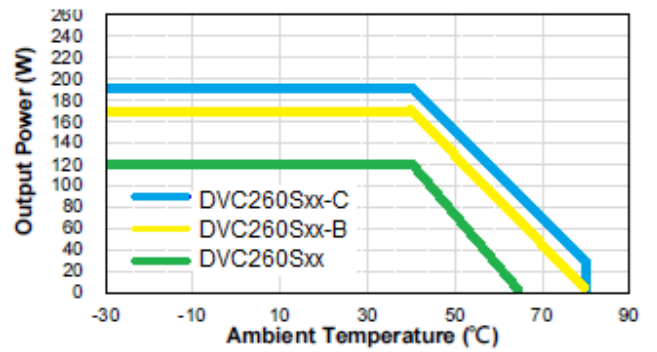
Forced Air Flow



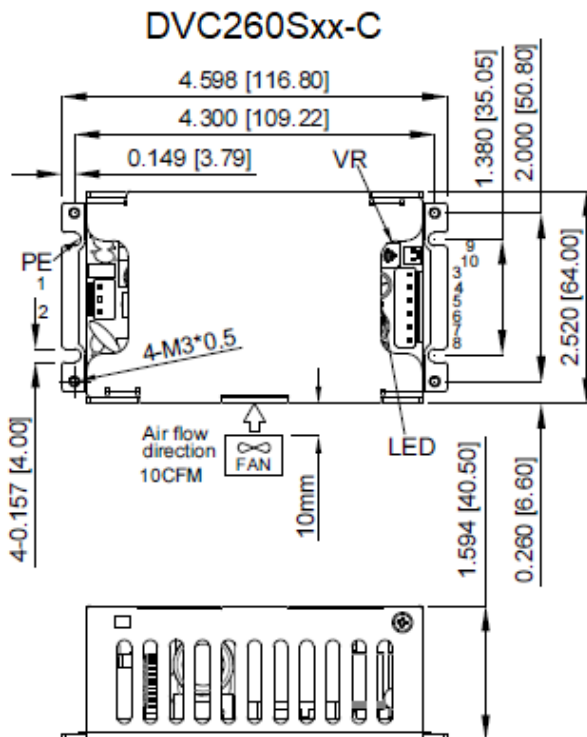
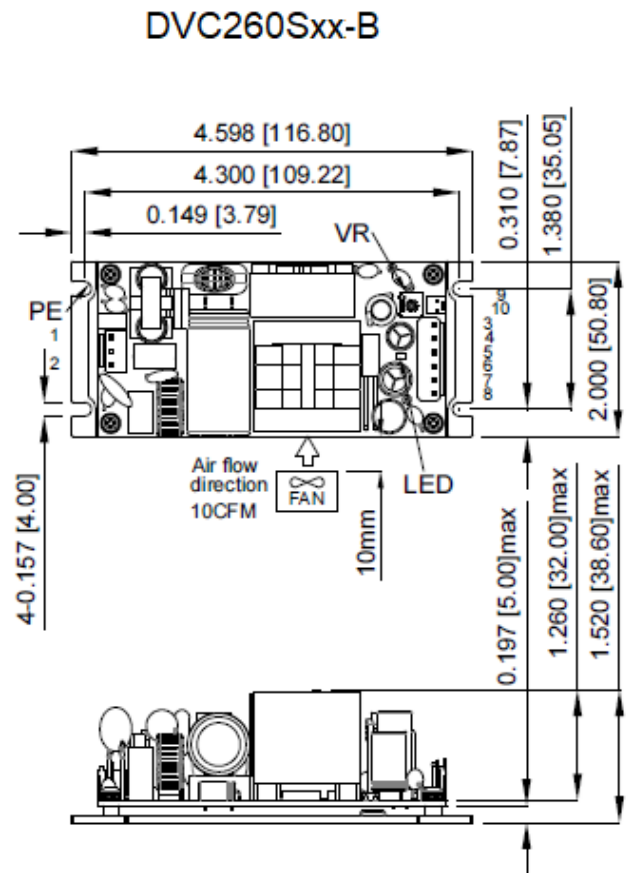
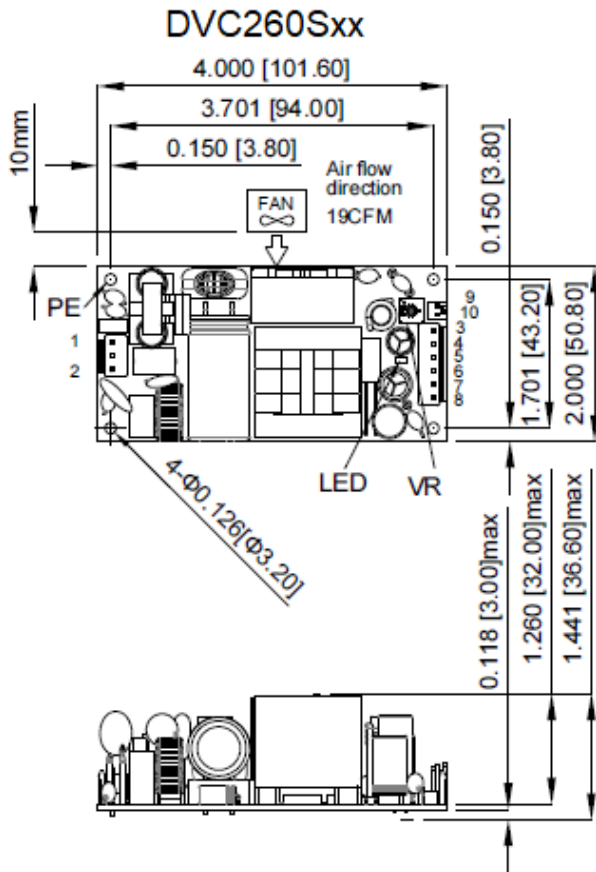
Natural Convection



Natural Convection



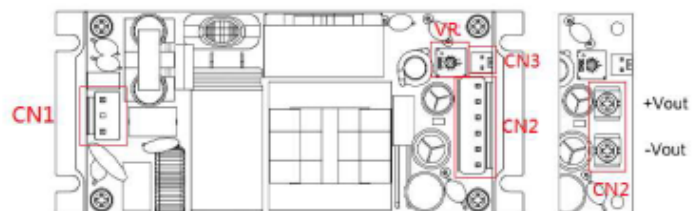
All Dimensions in inches[mm], Tolerances : Inches : x.xxx=±0.02, Millimeters : x.xx=±0.5



PIN CONNECTION					
Pin	Function	Pin	Function	Pin	Function
1	ACL	5	+Vout	9	+Fan Output
2	ACN	6	-Vout	10	-Fan Output
3	+Vout	7	-Vout		
4	+Vout	8	-Vout		

All Dimensions In Inches[mm]
Tolerance Inches: x.xxx = ± 0.02
Millimeters: x.xx = ± 0.5

Mating Connectors



AC Input (CN1)	Wafer: TAIWAN KING PIN TERMINAL PVHI series or equivalent. Housing: JST VHR series or equivalent.
DC Output (CN2)	For Vo 24,36,48: TAIWAN KING PIN terminal PVHI series or equivalent. Housing: JST VHR series or equivalent. M3 screw (only for Vo 12) mate with round terminal. (Note: Round terminal of the max outer diameter is 6.75mm, max inner diameter is 3.9mm.)
Fan Output (CN3)	Chyao shiunn JS-6001 series or equivalent. Housing: Chyao shiunn Housing JS-8001 series or equivalent.
LED	indicates that the power is on.
VR	Phillips screwdriver

Technische Änderungen vorbehalten / Specifications are subject to change without notice