



200 Watt MEDICAL AC/DC Modules with PFC Series DVC200M



Features

- Universal Input: 90 – 264Vac
- Active PFC Meets IEC61000-3-2
- High Efficiency up to 93,5%
- 180W with Natural Convection (open frame)
- 2" x 4" Size
- Meet Class I & Class II
- IEC/EN/UL60601-1 2MOPP Approved
- Continuous Short Circuit Protection
- Over Voltage Protection
- 12V Fan Output
- 200W with Natural Convection (Covered Version)
- No Load Power Consumption <0,3W
- Meets EN55011 Class Class B
- Meet IEC/EN60335-1

MODEL NUMBER	OUTPUT VOLTAGE [VDC]	OUTPUT CURRENT [A]	RIPPLE & NOISE (Note 1) [mV]	VOLTAGE ACCURACY (Note 2) [%]	LINE REG. (Note 3) [%]	LOAD REG. (Note 4) [%]	EFF. Typ. Note 5 [%]	POWER [W]
DVC200M12-B	+12	16,67	150	±2	±0,5	±1	92	200
DVC200M24-B	+24	8,33	240	±2	±0,5	±1	93,5	200
DVC200M48-B	+48	4,17	480	±2	±0,5	±1	93	200
Fan Output Voltage								
All	+12	0,5 Note 6	--	--	--	--	--	--

Note:

Part Number Example: DVC200M12-B : -B With Baseplate
DVC200M12-C : -C With Case

INPUT CHARACTERISTICS:

AC input Voltage 90-264Vac / 120-370Vdc
Frequency 47 to 63Hz
Inrush Current 100A max. @240Vac
Leakage Current 300uA max.
Touch Current (Covered Version) 100uA max.

GENERAL SPECIFICATIONS:

Isolation Input to Output 4000 VAC
Operating Temperature -20 to +80°C (see derating curve)
Over Temperature Protection Auto Recovery
Storage Temperature Range -40 to +85°C
Humidity 93% RH max. Non-Condensing
Altitude 3000m
Switching Frequency 85Hz typ.
MTBF (MIL-HDBK-217F,GB,at25°C/115VAC) 279K hrs. typ.

OUTPUT CHARACTERISTICS:

Hold-up Time 10ms typ.
Over Voltage Protection Recycle AC Input to Restart
Short Circuit Protection Hiccup mode (Auto Recovery)
Temperature Coefficient $\pm 0,05\%/^{\circ}\text{C}$

SAFETY:

Emission & Immunity EN60601-1-2:2015 ed. 4.0
EN55011 Class B, FCC CFR 47 part 18
IEC61000-3-2, 3, IEC61000-4-2, 3, 4, 5, 6, 8, 11
Safety Class I & Class II, IEC60601-1:2005+A1:2012 ed 3.1
EN60601-1:2006+A11:2011+A1+A12 ed 3.1
UL ANSI/AAMI ES60601-1
(**UL60601-1 with a 10 CFM Fan Cooling**)

MECHANICAL OUTLINE:

Open frame versions 101,60 x 50,80 x 37,60 mm
Covered versions 117,00 x 62,00 x 40,50 mm
Weight -B with Baseplate Versions 253g typ
-C Covered version 314g typ.

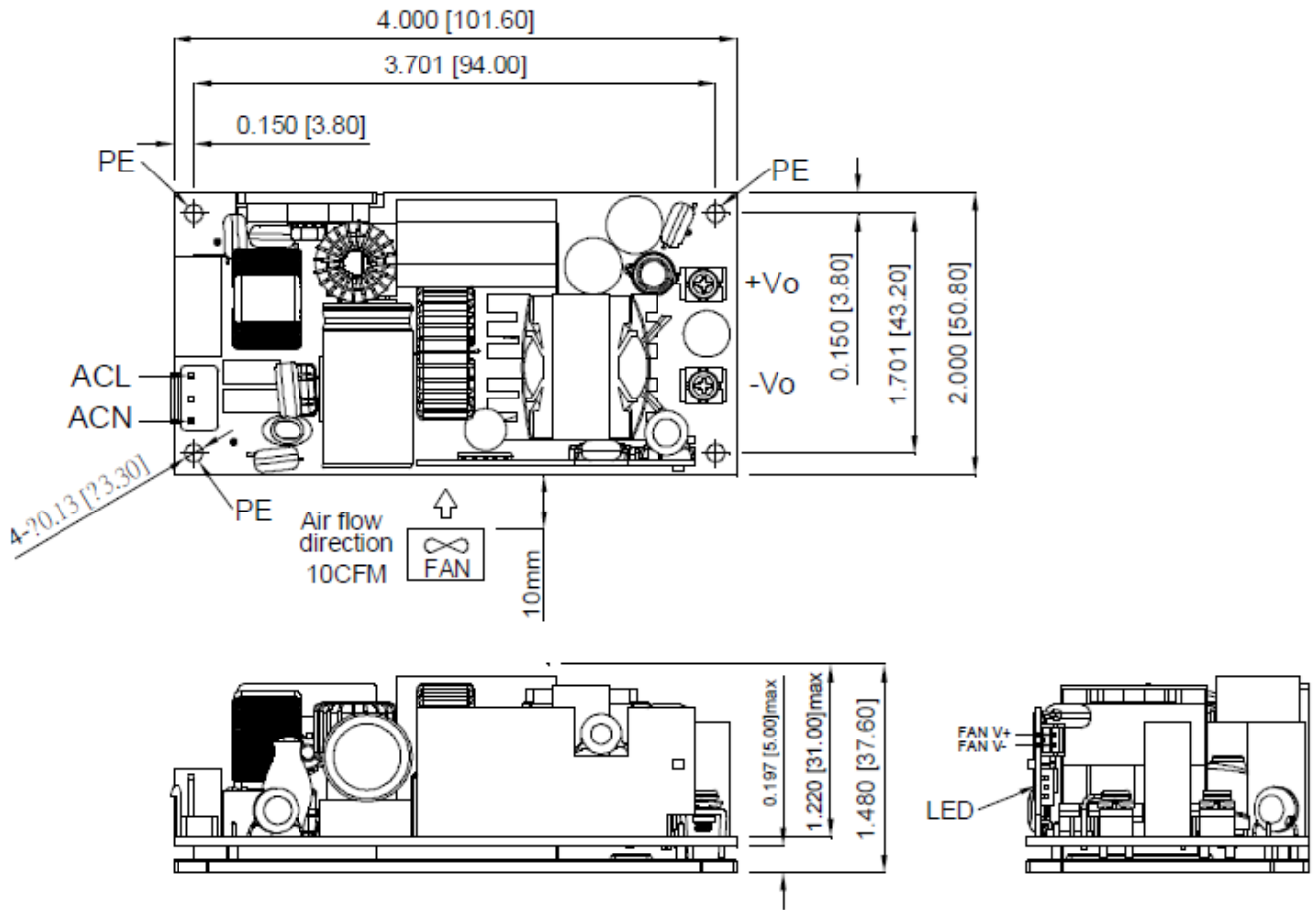
NOTE:

1. Add a 0.1uF ceramic capacitor and a 47uF E.L. capacitor to output for ripple&noise measuring @20MHz BW.
2. Voltage accuracy is set at 60% rated load and 25°C Ta.
3. Line regulation is measured from High Line to Low Line with rated load.
4. Load regulation is measured from full to 10% rated.
5. Typical efficiency at 230 VAC and full load at 25°C.
6. 12V/0.3A with nature convection; 12V/0.5A with 10 CFM air flow, tolerance $\pm 10\%$ at main output 10-100% full load.
7. Need an external 1mH choke at input for Class II type to pass EN55011 Class B.
8. Input connectors (CN1) wafer with TAIWAN KING PIN TERMINAL PVHI series and mate with JST Housing VHR series or equivalent.
9. Fan output connector wafer with TOWNES ENTERPRISE 2001BW series and mate with JST Housing PHR series and JST SPH series crimp terminal or equivalent.
10. Output connectors (Vo+ & Vo- with M3 screw) mate with round terminal and round terminal of the max outer diameter is 6.75mm, max inner diameter is 3.9mm.

Typical at 25°C, 230Vac and 60% rated load, unless otherwise specified.

All Dimensions are in Inches (mm) / Tolerances: Inches x.xxx=±0.02 (x.xx±0.5) unless otherwise noted

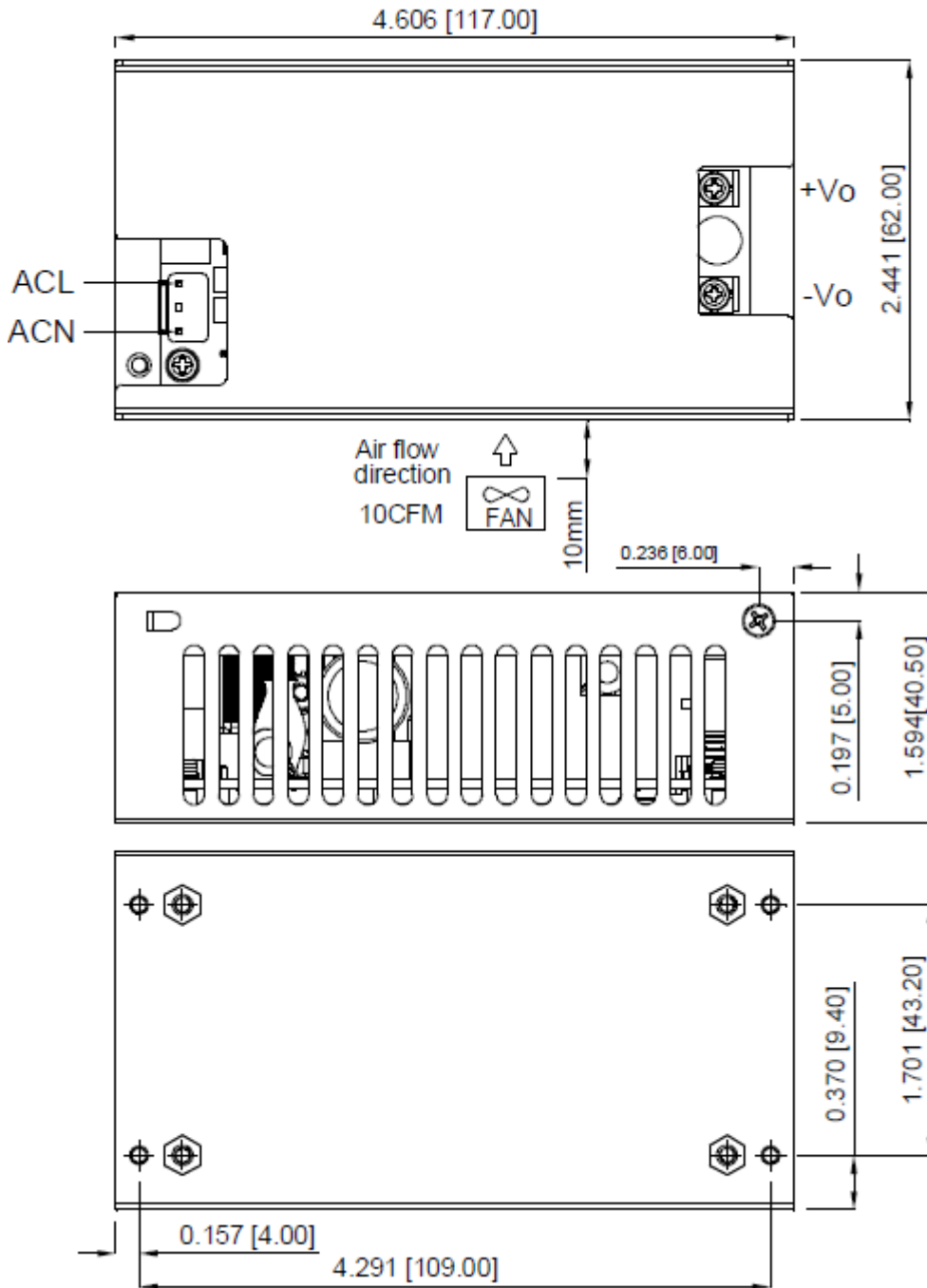
DVC200Mxx-B



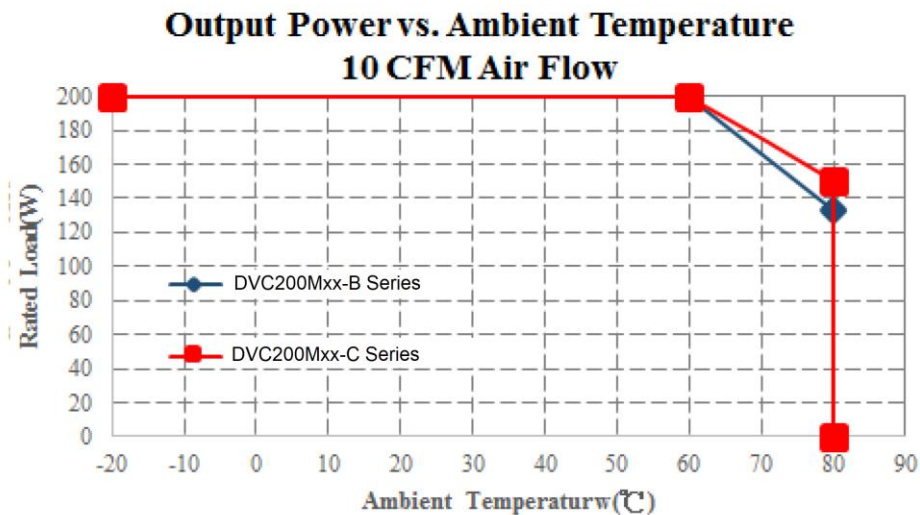
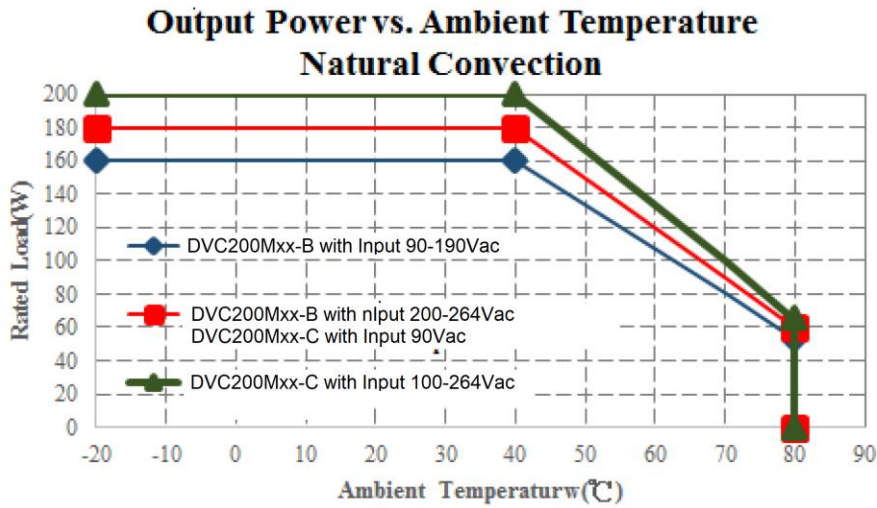
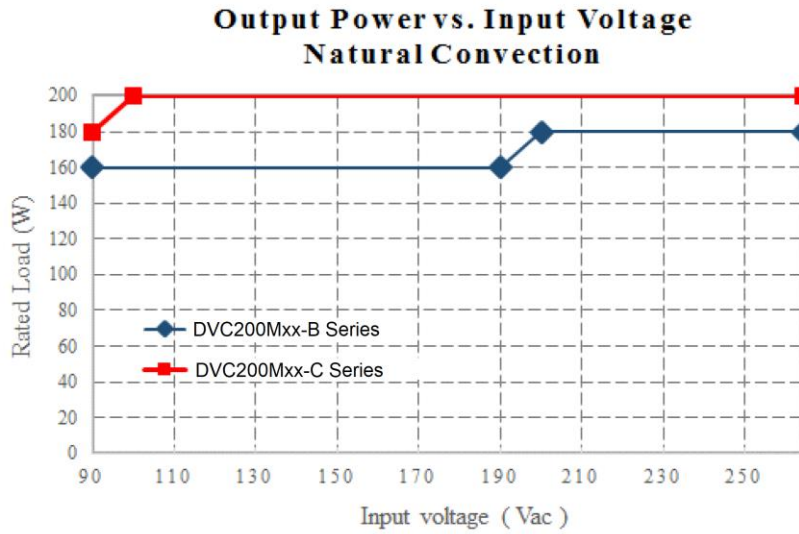
Technische Änderungen vorbehalten / Specifications are subject to change without notice

All Dimensions are in (mm) / Tolerances: (x.xx±0.5) unless otherwise noted

DVC200Mxx-C



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