



130 Watt MEDICAL AC/DC Modules with PFC Series DVC130M



Features

- Universal Input: 80 – 264Vac
- 100W with Natural Convection
- 2" x 3" Size
- Active PFC Function
- Meets 2 MOPP IEC/EN60335-1
- Medical UL60601-1 Approved
- High Efficiency up to 94%
- 130W with Fan-Cooled
- No Load Power Consumption <150mW
- Operating Altitude 5000m
- Continuous Short Circuit Protection
- EMI Safety Meets Class I & Class II

MODEL NUMBER	OUTPUT VOLTAGE [VDC]	OUTPUT CURRENT MAX. [A]		RIPPLE & NOISE [%] (Note 2)	VOLTAGE ACCURACY [%] (Note 1)	LINE REGULATION [%] (Note 3)	LOAD REGULATION [%] (Note 4)	EFF. [%] (Note 5)
		Natural Convection	Fan Cooled (Note 7)					
DVC130M12	12	8,34	10,8	1	±2	±0,5	±1	93
DVC130M24	24	4,2	5,4	1	±2	±0,5	±1	93
DVC130M36	36	2,8	3,6	1	±2	±0,5	±1	94
DVC130M48	48	2,1	2,7	1	±2	±0,5	±1	94

Note:

Please add -B for Base-Cooling-Version, for example DVC130M12-B or add -C for Covered-Version, for example DVC130M24-C.

INPUT SPECIFICATIONS:

Input Voltage Range 80-264Vac
 Frequency 47 to 63Hz
 Inrush Current Cold Start @ 25°C 100A max. @240Vac
 Input Current 100VAC/1,5A max., 240Vac/0,8A max.
 Leakage Current 100uA max.

GENERAL SPECIFICATIONS:

Isolation Input to Output 4000VAC
 Operating Temperature Range ...-30°C to +70°C (see Derating Curve)
 Storage Temperature Range.....-40°C to +85°C
 Humidity 93% RH max. Non-Condensing
 Cooling Natural Convection@100W, 10CFM Air Flow@130W
 Switching Frequency 105 KHz Typ.
 MTBF (MIL-HDBK-217F, GB, 25°C/115VAC)400 Khrs min
 Altitude 5000m

NOTE:

1. Voltage accuracy is set at full load.
2. Add a 0.1uF ceramic capacitor and a 10uF E.L. capacitor to output for ripple & noise measuring @20MHz BW.
3. Line regulation is measured from 100Vac to 240Vac with full load.
4. Load regulation is measured from 10% to 100% full load.
5. Typical efficiency at 230 VAC and 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 or equivalent.
7. Requires 10CFM.
8. EMI meets EN55011 Class B when test condition is Class E, Class II.
 Radiation meets EN55011 Class B when test condition is Class E.
 Radiation meets EN55011 Class A when test condition is Class II.

Typical at 25°C, nominal line and 75% load, unless otherwise specified.

OUTPUT SPECIFICATIONS:

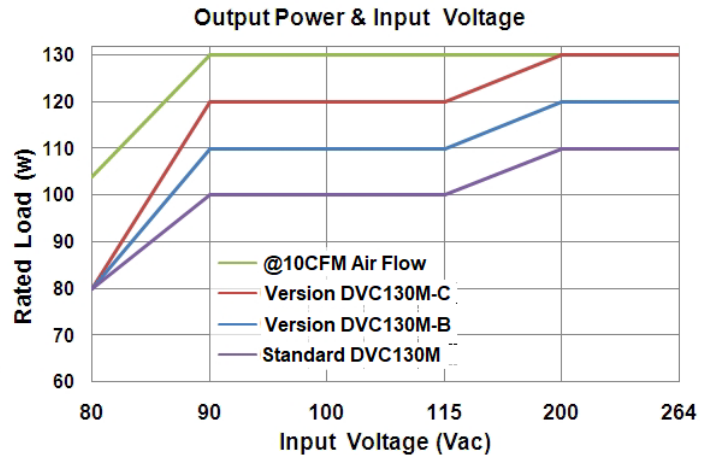
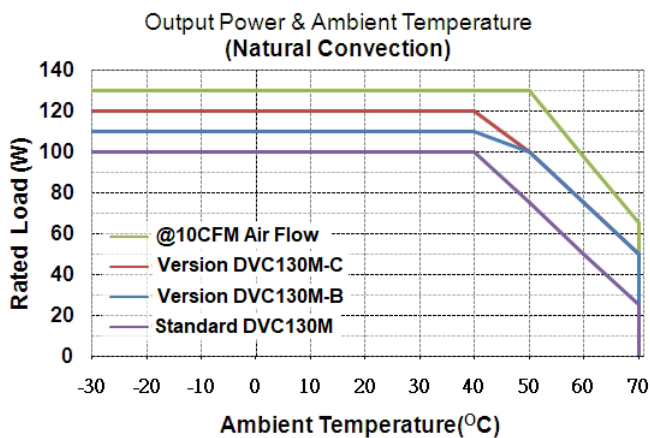
Hold-up Time..... 20ms min. @115Vac
 Short Circuit Protection..... Hiccup mode (Auto Recovery)
 Over Voltage Protection..... Auto Recover
 Temperature Coefficient ±0,05%/°C

SAFETY AND EMC:

Emission & Immunity EN55011 Class B, IEC61000-3-2
 IEC61000-4-2, 3, 4, 5, 6, 8, 11, IEC61000-3-3
 FCC Part 18 Class B (note 7)
 Safety (Ed. 3.1) Class I, Class II, IEC60601-1, EN60601-1
 UL ANSI/AAMI ES60601-1

MECHANICAL OUTLINE:

Dimensions.....76,2 x 50,8 x 30,5 (mm)
 Base-Cooling-Version 91,4 x 50,8 x 33 (mm)
 Covered-Version 91,4 x 64,0 x 34,5 (mm)
 Weight135g typ.
 -B Version 170g typ.
 -C Version 218g typ.

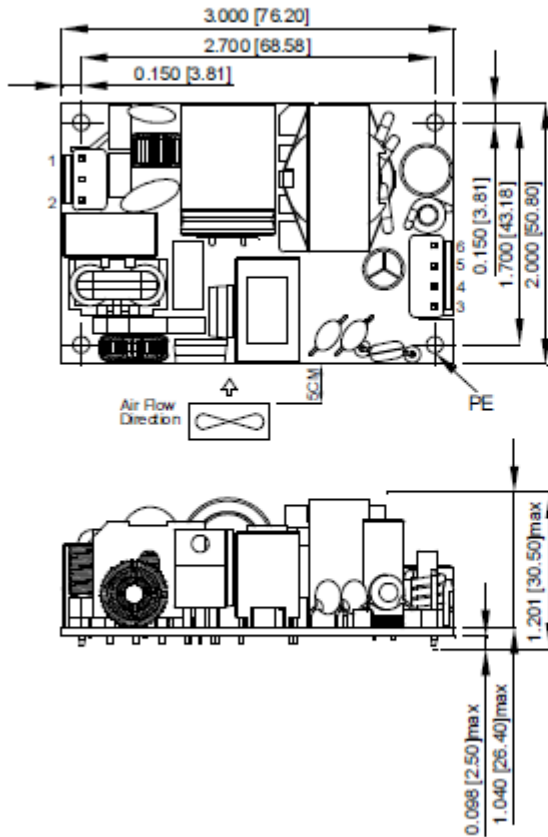


MECHANICAL SPECIFICATION

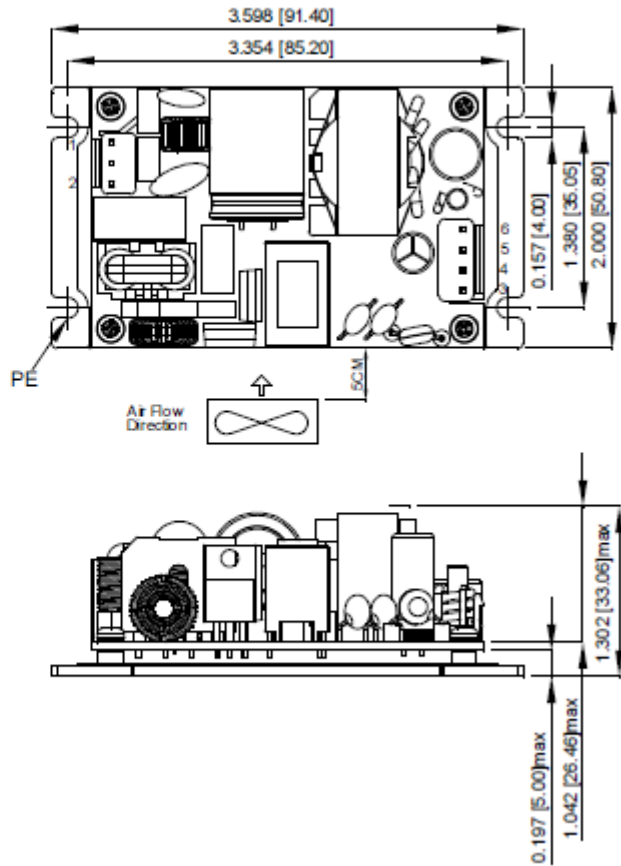
Series DVC130M

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

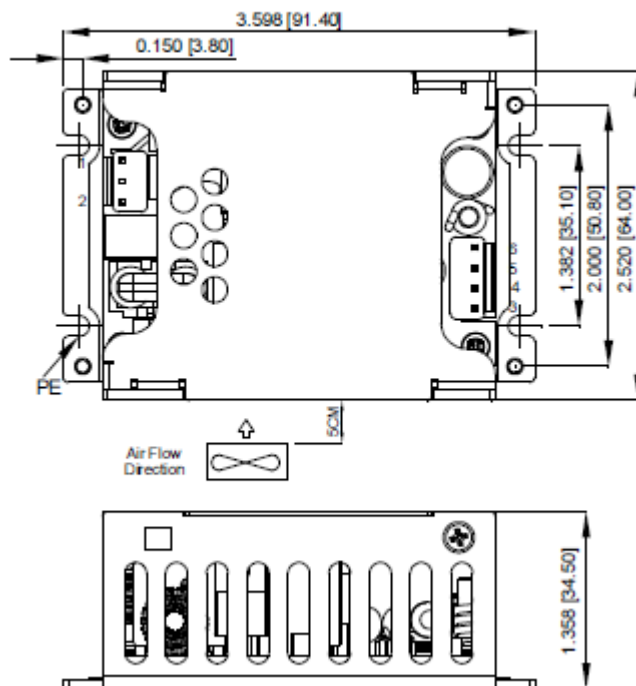
DVC130M



DVC130M-B



DVC130M-C



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

Technische Änderungen vorbehalten / Specifications are subject to change without notice