



FEATURES

- 90~264 VAC Universal Input
- 0.9 to 0.95 Power Factor
- 200W @ Convection or 250W @ 17.1 CFM
- 3" X 5" Footprint
- IEC/EN/UL 60601-1 3rd Edition Approvals



ELECTRICAL SPECIFICATIONS

Input Voltage	90~264 VAC
Input Frequency	47~63 Hz
Input Current	4A (rms) max. @ 115 VAC, 2A (rms) max. @ 230 VAC
Inrush Current	50A max. @ 115 VAC, 100A max. @ 230 VAC at cold start +25°C
Earth Leakage Current	300 μ A max. @ 264 VAC, 63 Hz
Power Factor	>0.95 @115 VAC, >0.9 @230 VAC
Output Power Ratings	See table
Output Voltage Regulation ..	See table
Ripple and Noise	See table

STANDARDS & COMPLIANCES

EMC Standards	EN 60601-1-2, EN 55011 Class B, FCC Part 18 Class B
Safety Standards	IEC/EN/UL 60601-1 3rd Edition, ANSI/AAMI ES 60601-1: 2005, CAN/CSA C22.2 No. 60601-1:08
Agency Approvals	CSA, CUS, TUV, CE, CB, FCC
Other Compliance	RoHS

GENERAL SPECIFICATIONS

Efficiency	>85% at full load, 115 VAC
Switching Frequency	53-58 KHz
Hold-up Time	>10 ms @ 115 VAC, 250W load
Operating Temperature	0°C to +70°C
Storage Temperature	-40°C to +85°C
Derating	Derate linearly 2.5%/°C from +41°C to +70°C
Operating Humidity	5% to 95% non-condensing
Short-Circuit Protection	Auto-recovery
Overload Protection	Set at 105% to 160% of the maximum rating, Auto-recovery
Overvoltage Protection	Auto-recovery
Withstand Voltage	4,000 VAC from input to output, 1,500 VAC from input to ground, 500 VAC from output to ground
MTBF	>120K hours at full load and 25°C ambient temperature calculated per MIL-HDBK-217F

MODELS LIST

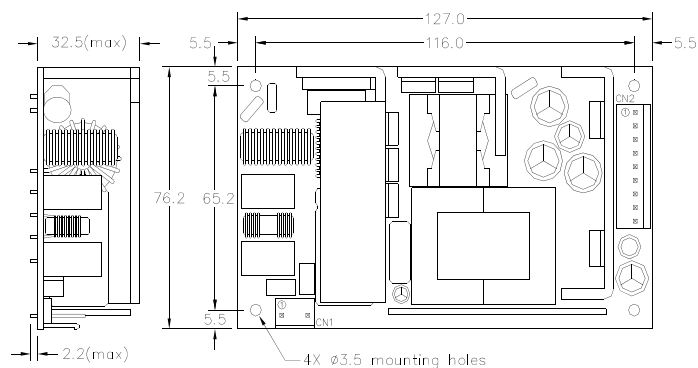
Product No. ⁽¹⁾	Output Voltage	Min. Load	Max. Load		Output Regulation	Ripple & Noise (Vp-p) ⁽²⁾	Max. Output Power
			@ Convection	@ 17.1 CFM			
TWM250-12	+12V	0A	16.67A	20.84A	±5%	120mV	250W
TWM250-19	+19V	0A	10.53A	13.16A	±5%	190mV	250W
TWM250-24	+24V	0A	8.34A	10.42A	±5%	240mV	250W
TWM250-28	+28V	0A	7.14A	8.93A	±5%	280mV	250W
TWM250-30	+30V	0A	6.67A	8.34A	±5%	300mV	250W
TWM250-36	+36V	0A	5.56A	6.95A	±5%	360mV	250W
TWM250-40	+40V	0A	5A	6.25A	±5%	400mV	250W
TWM250-48	+48V	0A	4.17A	5.21A	±5%	480mV	250W

Notes:

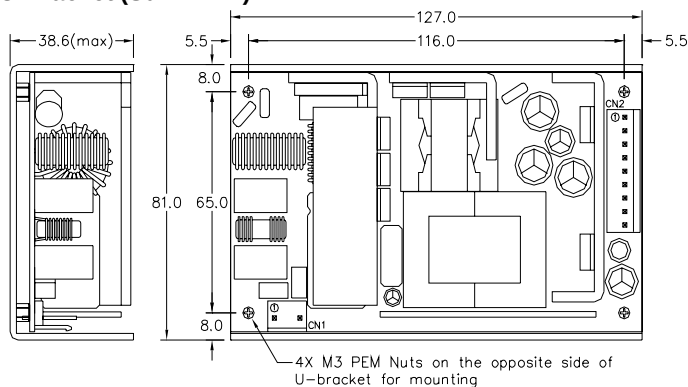
1. Standard form factor is PCB. For U-bracket models, add suffix "B" to the P/N, e.g. TWM250-24B, TWM250-48B, etc.
2. R&N are measured at 20 MHz bandwidth with a 47 μ F electrolytic capacitor and a 0.1 μ F ceramic capacitor in parallel.

MECHANICAL SPECIFICATIONS (Unit: mm)

PCB (Standard)



U-Bracket (Suffix "B")



INPUT & OUTPUT CONNECTORS

Input Connector: CN1

Pin #	Function
1	AC Line
2	AC Neutral

JST P/N B3P-VH-B (3.96mm pitch); mates with JST VHR-3N or equivalent.

Output Connector: CN2

Pin #	Function
1, 2, 3, 4	Return
5, 6, 7, 8, 9	+V

JST P/N B9P-VH-B (3.96mm pitch); mates with JST VHR-9N or equivalent.