

AC-DC Medical Desktop

80 Watts PCM80 Series



THE XPERTS IN POWER

- Medical Safety Agency Approvals
- Single, Dual and Triple Outputs
- Both Line and Neutral Fused
- Low Leakage Current
- 4000 VAC Isolation
- Active PFC, Meets EN61000-3-2, -3

Specification

Input

- *Input Voltage* 90-264 VAC
- *Input Frequency* 47 to 63 Hz
- *Power Factor* 0.99 at 100 VAC or 0.94 at 240 VAC
- *Input Current* 1.3 A maximum
- *Inrush Current* 20 A max at 115 VAC or 40 A max at 230 VAC cold start
- *Safety Ground Leakage Current* 0.15 mA max at 115 VAC, 60 Hz
- *Input Protection* Both line and neutral fused

Output

- *Output Voltage* See Tables
- *Output Power* 80 Watts max
- *Minimum Load* No minimum load required for single output models
- *Start Up Delay* 2 s max
- *Hold-up time* 16 ms min at 115 VAC
- *Line Regulation* ±1% max at full load
- *Load Regulation* ±5% max, 3.3 V model ±7%
- *Ripple and Noise* 1% pk-pk max
- *Transient Response* Max excursion of 4% or better on all models. Recovers to 1% of final value within 500 µs after a 25% step load change
- *Overvoltage Protection* Provided on output #1 only 110 to 135% recycle input to reset
- *Overcurrent Protection* All outputs 110-150% with auto recovery. Hiccup mode
- *Temperature Coefficient* All outputs ±0.04%/°C max

General

- *Efficiency* 83% typical
- *Isolation* 4000 VAC from input to output
1500 VAC from input to ground
500 VAC from output to ground
- *Switching Frequency* 60 kHz typical
- *Indications* Green LEDs for AC OK
- *MTBF* 100,000 hours minimum at full load at +25 °C ambient
- *Insulation Resistance* 100 Mohm minimum from output to ground
- *Dimensions* 6.63" x 3.07" x 1.97"
- *Weight* 810 grams approx
- *Power Density* 2 W/in³ for singles

Environmental

- *Operating Temperature* 0 °C to +70 °C
Derate linearly from 100% load at +40 °C to 50% load at +70 °C
- *Operating Humidity* 5 to 95% RH, non-condensing
- *Storage Temperature* -40 °C to +80 °C

EMC & Safety

- *Emissions* EN55022, level B conducted
EN55022, level B radiated
- *ESD Susceptibility* EN61000-4-2, level 2, Perf Criteria A
- *Radiated Susceptibility* EN61000-4-3, level 2, Perf Criteria A
- *EFT/Burst* EN61000-4-4, level 2, Perf Criteria A
- *Surge* EN61000-4-5, level 3, Perf Criteria A
- *Safety Approvals* EN60601-1, UL60601-1, CSA22.2
No 601.1 per cUL CE Mark

OUTPUT VOLTAGE & CURRENT RATINGS

PCM80

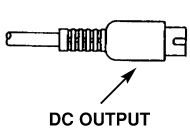
Maximum Power	Output 1				Output 2				Output 3				Model Number
	Vnom	Imin	I _{max}	Tol. ⁽¹⁾	Vnom	Imin	I _{max}	Tol. ⁽¹⁾	Vnom	Imin	I _{max}	Tol. ⁽¹⁾	
50 W	3.3 V	0.0 A	15.1 A	7%									PCM80PS3V3
65 W	5.0 V	0.0 A	13.0 A	5%									PCM80PS05
70 W	7.0 V	0.0 A	10.0 A	5%									PCM80PS07
75 W	9.0 V	0.0 A	8.3 A	5%									PCM80PS09
75 W	10.0 V	0.0 A	7.5 A	5%									PCM80PS10
80 W	12.0 V	0.0 A	6.7 A	5%									PCM80PS12
80 W	13.5 V	0.0 A	5.9 A	5%									PCM80PS13V5
80 W	15.0 V	0.0 A	5.3 A	5%									PCM80PS15
80 W	16.0 V	0.0 A	5.0 A	5%									PCM80PS16
80 W	17.5 V	0.0 A	4.6 A	5%									PCM80PS17V5
80 W	18.0 V	0.0 A	4.4 A	5%									PCM80PS18
80 W	24.0 V	0.0 A	3.3 A	5%									PCM80PS24
80 W	27.0 V	0.0 A	3.0 A	5%									PCM80PS27
80 W	30.0 V	0.0 A	2.7 A	5%									PCM80PS30
80 W	36.0 V	0.0 A	2.2 A	3%									PCM80PS36
80 W	48.0 V	0.0 A	1.7 A	3%									PCM80PS48
38 W	3.3 V	0.5 A	7.0 A	5%	5.0 V	0.3 A	3.0 A	5%					PCM80PD00
53 W	3.3 V	0.5 A	7.0 A	5%	12.0 V	0.2 A	2.5 A	5%					PCM80PD01
60 W	5.0 V	0.5 A	7.0 A	5%	12.0 V	0.2 A	2.5 A	5%					PCM80PD02
60 W	5.0 V	0.5 A	7.0 A	5%	15.0 V	0.2 A	2.0 A	5%					PCM80PD03
60 W	5.0 V	0.5 A	7.0 A	5%	24.0 V	0.2 A	2.0 A	5%					PCM80PD04
60 W	5.0 V	0.5 A	7.0 A	5%	-24 V	0.2 A	2.0 A	5%					PCM80PD05
65 W	12.0 V	0.5 A	5.0 A	5%	-12.0 V	0.1 A	0.8 A	5%					PCM80PD06
65 W	15.0 V	0.5 A	4.0 A	5%	-15.0 V	0.1 A	0.8 A	5%					PCM80PD07
65 W	24.0 V	0.5 A	2.1 A	5%	-24.0 V	0.1 A	0.8 A	5%					PCM80PD08
51 W	3.3 V	0.5 A	7.0 A	5%	12.0 V	0.2 A	2.0 A	5%	-5.0 V	0.1 A	0.8 A	5%	PCM80PT01
60 W	5.0 V	0.5 A	6.0 A	5%	12.0 V	0.2 A	2.5 A	5%	-5.0 V	0.1 A	0.5 A	5%	PCM80PT03
60 W	5.0 V	0.5 A	6.0 A	5%	12.0 V	0.2 A	2.1 A	5%	-12.0 V	0.1 A	0.5 A	5%	PCM80PT04
65 W	5.0 V	0.5 A	6.0 A	5%	15.0 V	0.2 A	2.1 A	5%	-15.0 V	0.1 A	0.5 A	5%	PCM80PT05
60 W	5.0 V	0.5 A	6.0 A	5%	24.0 V	0.1 A	1.2 A	5%	-12.0 V	0.1 A	0.5 A	5%	PCM80PT06
65 W	5.0 V	0.5 A	7.0 A	5%	24.0 V	0.2 A	2.0 A	5%	-24.0 V	0.1 A	0.5 A	5%	PCM80PT07

Notes

1. Total regulation includes tolerance, line regulation and load regulation.

Mechanical Details

PIN CONNECTIONS 8-Pin is Standard			
Pin	Single	Dual	Triple
1	Common	Common	Common
2	Common	Output 2	Output 3
3	Output 1	Output 1	Output 1
4	Common	Output 2	Output 2
5	Output 1	Output 1	Output 2
6	Common	Common	Common
7	Output 1	Output 1	Output 1
8	Output 1	Common	Output 3
Shell	Ground	Ground	Ground



8-Pin DIN PLUG

Notes:

1. Dimensions shown in inches (mm).
2. Tolerance 0.04" (1.0 mm) maximum.
3. Cable length is 48.0".
4. Optional output connectors available consult factory.
5. Weight 800-900g approx.
6. Multiple output models include a ferrite bead on the output connector.

