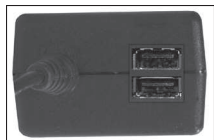


## PA1090xxB SERIES:



Optional USB Ports to  
Power Auxiliary Devices



### 90 Watts / Single Output

- 5.28 x 2.13 x 1.20" Desktop Power Supplies

#### Features:

- Universal AC Input (90~264 VAC Input Range)
- Desktop Package with C8 / C6 / C14 Inlets
- Optional Dual USB Port Outlets for Auxiliary Devices
- Level V Efficiency
- Class B Emissions
- International Safety Approvals (Class II)
- 2 Year Warranty

#### GENERAL:

Efficiency	87% minimum
Operating Temperature	0-40°C, derate linearly to 50% Load at 50°C
Storage Temperature	-20°C to +85°C
Cooling	Convection Cooled
Operating Humidity	5-95% RH, Non-Condensing
Vibration	5 ~ 50 Hz, acceleration 7.35 m/s <sup>2</sup> s on X,Y and Z Axis
MTBF	>50k Hrs (according to MIL-HBK-217F) at 25°C

#### INPUT:

Input Voltage	90~264 VAC (Universal AC Input)
Input Frequency	47-63Hz
Inrush Current	100A @ 230 VAC Cold Start
Input Current	2000mA maximum
Input Protection	Single Fuse
Hold-Up Time	10ms Minimum
Leakage Current	<700 $\mu$ A @ 240 VAC Maximum
Harmonics	EN61000-3-2 Class A Compliant
Green Power	Less than 0.300W No Load Input Power

#### OUTPUT:

Minimum Load	n/a
Line Regulation	$\pm$ 1% max
Load Regulation	$\pm$ 5% max
Ripple & Noise	$\pm$ 1% typ. pk-pk @ 20MHz
Overload Protection	110-135% of max power (Foldback)
Over Voltage	Latching >130% of nominal
Short Circuit Protection	Continuous (auto-recovery)

#### EMC:

Electrostatic Discharge	EN61000-4-2, $\pm$ 4KV Contact / $\pm$ 8KV Air Discharge
Radiated Susceptibility	EN61000-4-3, 26-1000MHz, 10V/M, 80% AM
EFT / Bursts	EN61000-4-4, $\pm$ 2KV
Surges	EN61000-4-5, $\pm$ 2KV Line-Earth, $\pm$ 1KV Line-Line
Conducted Immunity	EN61000-4-6, 0.15-800MHz, 10V, 80% AM
Voltage Dips	EN61000-4-100, 95% Dip & 10ms, 30% Dip & 500ms
Voltage Interruptions	EN61000-4-11, 95% reduction, 5s
Fluctuations & Flicker	EN61000-3-3

#### APPROVALS:

Emissions VCCI / SMA / EN55022 Class B  
FCC ANSI C63.4 Class B

Safety Approvals UL/cUL 60950-1  
CB EN60950-1  
TUV/GS EN60950-1  
C-Tick AS3260(AS/NSZ60950)  
CEC Level IV  
CE Mark (LVD)



## PA1090xxB SERIES:

### Output Specifications:

Model:	Vout	Max Output Current	Factory Set Point Range	Optional Dual USB Port Output		Max Power Watts
PA1090-120xx700	12 VDC	7000mA	10~14.9 VDC	5V	2000mA	84 Watts
PA1090-150xx560	15 VDC	5600mA	15~24 VDC	5V	2000mA	90 Watts
PA1090-180xx500	18 VDC	5000mA	15~24 VDC	5V	2000mA	90 Watts
PA1090-190xx316	19 VDC	4737mA	15~24 VDC	5V	2000mA	90 Watts
PA1090-240xx375	24 VDC	3750mA	15~24 VDC	5V	2000mA	90 Watts
PA1090-270xx333	27 VDC	3333mA	24.1~36 VDC	5V	2000mA	90 Watts
PA1090-300xx300	30 VDC	3000mA	24.1~36 VDC	5V	2000mA	90 Watts
PA1090-480xx187	48VDC	1875mA	36.1~48 VDC	5V	2000mA	90 Watts

- Designate Input / Output Configuration by replacing xxx with one of the Options Below:

T2B = IEC-320 C8 (2-prong) Inlet and Single Output DC Cable

T4B = IEC-320 C8 (2-prong) Inlet and Single Output DC Cable + Dual USB Port Outlets

C1B = IEC-320 C14 (3-prong) Inlet via 12" affixed cable

T3B = IEC-320 C6 (3-prong) Inlet and Single Output DC Cable

T5B = IEC-320 C6 (3-prong) Inlet and Single Output DC Cable + Dual USB Port Outlets

U1B = IEC-320 C14 (3-prong) Inlet via 12" affixed cable + Dual USB Port Outlets

- Power Supply can be set to any voltage ranging between 5~48 VDC and maintain all safety approvals.

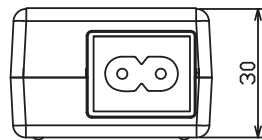
- Standard DC Output Cable Length is 6 feet.

- Additional suffix to designate output connector is required, see connector options at <http://www.advpower.com/dcconnector.pdf>

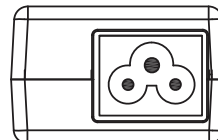
### OUTLINE DRAWING:



U1 Suffix to designate 12 inch Attached Input Cable to IEC-320 C14 Inlet Option

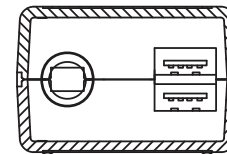


T2B / T4B = C8 INLET



T3B / T5B = C6 INLET

DC OUTPUT SIDE SHOWN WITH OPTIONAL DUAL USB PORT OUTPUTS



T4B / T5B / U1B OUTPUT SIDE

