

VAN90 Series

80-96 Watt

Single Output Desktop Power Supply

Features:

- * Universal AC Input (90-264VAC / 47-63 Hz)
- * Active Power Factor Correction
- * Energy Star / CEC Compliance
- * No load power Consumption less than 0.75 Watts
- * Small 5.91 x 2.36 x 1.22" Desktop Package
- * Plastic (UL 94V-0 Rated) Enclosure
- * IEC-320 C14 / C6 Inlet Options
- * Class I Safety Approvals (Safety Ground Connected)
- * UL / cUL 60950-1, CB IEC60950-1 Safety Approvals
- * EN55022 class B, FCC PART 15 class B Emissions
- * 2 Year Warranty



Input Specifications:

Input Range	Universal VAC (90-264 VAC)
Input Frequency	47-63 Hz or DC
Inrush Current	less than 100A @ 230VAC (cold start)
Input Current	1.5A@115VAC/1.0A@230VAC max continuous
Efficiency	85-88% minimum
Hold-up Time	20ms minimum (full load)
Leakage Current	<3500µA maximum @ 240 VAC
Harmonics	EN61000-3-2 Class D (PF=0.97@230VAC)

Environmental Specifications:

Operating Temp	0 ~40°C (De-Rate 5%/°C Rise up to 50°C)
Storage Temp	-20 ~ +85°C
Cooling	Convection Cooled
Humidity	10-90%RH (non-condensing)
Vibration	10-300Hz, 2G, 10min period/60 min each (3axes)
Shock	20G Peak Acceleration
Reliability	50k hours MTBF (MIL-HDBK-217F)

Output Specifications:

Adjustment Range	Fixed At Factory
Minimum Load	None
Regulation	±1% Line / ±2-5% Load
Ripple / Noise	120-480mv pk-pk max (20MHz)
Set-Point Accuracy	±1%
Short Circuit Protection	Continuous
Over Load Protection	125-200%, hiccup mode
Over Voltage Protection	120-180% (shutdown, recycle AC to reset)

Safety / Emissions

Standards	UL/cUL60950-1 CB Report IEC60950-1 CE Mark (LVD)
	EN55022 class B, FCC PART 15 class B Emissions

Output Table:

VAN90 Series

Model Number	Watts	Output	Factory			
			Setpoint Range	CEC Level	DC Cable	Efficiency
VAN90x-120B	80W	12V / 6.67A ^(Note 3)	12-17 VDC	4	AWG16x6FT	85%
VAN90x-190B	96W	24V / 4.00A ^(Note 3)	18-25V DC	5	AWG16x6FT	88%
VAN90x-480B	96W	48V / 2.00A ^(Note 3)	46-50 VDC	5	AWG16x6FT	88%

Note:

- 1) "x" present input connector type, A=IEC320-C6 and C=IEC320-C14
- 2) Standard AC input connector is IEC320-C14, 3 prong.
- 3) The standard output voltage setting at factory are 12V on VAN90x-120B, 24V on VAN90x-190B and 48V on VAN90x-480B. The output voltage setting can be changed per customer's request when placing orders.
- 4) All efficiency data are base on 115VAC and full load.
- 5) VAN90-120B does not apply Energy Star at 240VAC input
- 6) Standard Output Connector is 5.5 x 2.1 x 11mm Barrel Jack (straight) with center hole positive.
- 7) Consult your salesperson to request other cable / connector option

Mechanical Specifications:

Construction: External Desktop

Weight: 0.93 lbs.

