

24 Watt

- Energy Efficiency Level VI
- European CoC Tier 2
- Universal Input
- Output Voltages from 12 V to 24 V
- Class II Construction
- Low Cost





The VET24 series of desk-top power supplies comply with the very latest energy efficiency level VI standards with high active mode efficiency and extremely low no load power consumption. Available with a standard jack plug connector these adaptors suit a wide variety of cost sensitive applications while maintaining industry leading performance.

Dimensions:

VET24:

4.21 x 1.71 x 1.22" (107.0 x 43.5 x 31.0 mm)

Models & Ratings

Output Power	Output Voltage	Output Current	Total Regulation ⁽²⁾	Output Connector	Model Number
	12.0 V	2000 mA	5%	5.5 x 2.1 x 12 mm DC Jack	VET24US120C2-JA
24 W	15.0 V	1600 mA	5%	5.5 x 2.1 x 12 mm DC Jack	VET24US150C2-JA
	18.0 V	1320 mA	5%	5.5 x 2.1 x 12 mm DC Jack	VET24US180C2-JA
	24.0 V	1000 mA	5%	5.5 x 2.1 x 12 mm DC Jack	VET24US240C2-JA

Notes

2. Total regulation includes initial set accuracy, line and load regulation.

Input					
Characteristic	Minimum	Typical	Maximum	Units	Notes & Conditions
Input Voltage	90		264	VAC	
Input Frequency	47		63	Hz	
Input Current			0.6	A	100 VAC
Inrush Current			80	А	240 VAC, cold start at 25 °C
Power Factor					EN61000-3-2, class A
No Load Input Power			75	mW	
Input Protection	Internal T1.0A/250 VAC fuse				

Output Minimum Maximum Units Notes & Conditions Characteristic Typical Output Voltage 12 24 ٧ See Models and Ratings table Minimum Load 0 Α No minimum load required Start Up Delay s Start Up Rise Time 55 ms Hold Up Time 8 ms Full load and 100 VAC Total Regulation See Models and Ratings table 5 % Recovely within <1% within 500 μs for a 50% step load Transient Response 4 % deviation change at 0.15 A/µs Measured with 20 MHz bandwidth and 47 μF electrolytic in 150 Ripple & Noise mV pk-pk parallel with 0.1 µF ceramic capacitor Short Circuit Protection Continuous, trip and restart (hiccup mode) with auto recovery 0.05 %/°C Temperature Coefficient

^{1.} Other output voltages available, contact sales for details.

VET24 Series



General

Characteristic	Minimum	Typical	Maximum	Units	Notes & Conditions
Efficiency		85		%	Typical average of efficiencies measured at 25%, 50%, 75% and 100% load and 115 VAC input
Energy Efficiency					Level VI
Isolation	3000			VAC	Input to Output
Switching Frequency	24		70	kHz	Variable
Mean Time Between Failure	250			kHrs	MIL-HDBK-217F at 25 °C GB
Weight		0.302 (137.0)		lb (g)	

Environmental

Characteristic	Minimum	Typical	Maximum	Units	Notes & Conditions
Operating Temperature	0		+60	°C	Derate from 100% load at 40 °C to 50% load at 60 °C
Storage Temperature	-40		+85	°C	
Operating Humidity	5		95	%	RH, non-condensing
Cooling					Natural convection
Shock					1 m drop onto concrete on each of 6 axes
Vibration	10		300	Hz	2 g 15 mins/sweep, 60 mins for each of 3 axes

EMC: Emissions

Phenomenon	Standard	Test Level	Notes & Conditions
Conducted	EN55032	Level B	
Radiated	EN55032	Level B	
Harmonic Current	EN61000-3-2	Class A	
Voltage Flicker	EN61000-3-3		

EMC: Immunity

Phenomenon	Standard	Test Level	Criteria	Notes & Conditions
ESD Immunity	EN61000-4-2	±4 kV contact, ±8 kV air	Α	
Radiated Immunity	EN61000-4-3	3 V/m	А	
EFT/Burst	EN61000-4-4	Level 2	Α	
Surge	EN61000-4-5	Level 2	Α	
Conducted Immunity	EN61000-4-6	3 V	Α	
Magnetic Fields	EN61000-4-8	1 A/m	Α	
	EN55024 (115VAC)	100% U _T (0 VAC) for 10 ms	Α	
		30% U _T (80.5 VAC) for 500 ms	Α	
Dips and Interruptions		100% U _T (0 VAC) for 5000 ms	В	
	EN55024 (230VAC)	100% U _T (0 VAC) for 10 ms	Α	
		30% U _T (161 VAC) for 500 ms	Α	
		100% U _T (0 VAC) for 5000 ms	В	

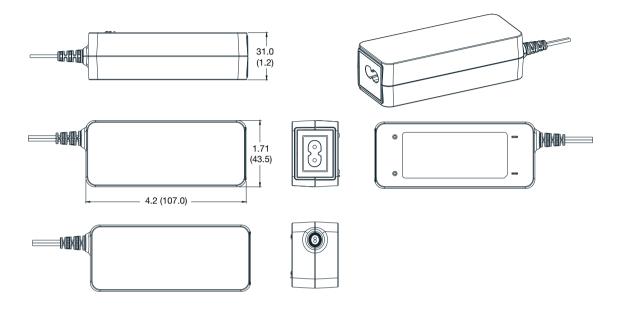
Safety Approvals

Phenomenon	Standard			
CB Report	IEC60950-1			
UL	UL/cUL60950-1, approved as limited power source (LPS)			
TUV	EN60950-1			
CCC	China Compulsory Certification, GB4943			
AU/NZ	AU/NZ 60950.1			

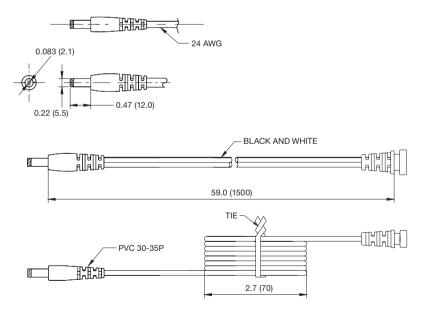


Mechanical Details

VET24USXXXC2-JA



Output Lead and Connection



Wire type: VW-1 80°C 300 V L=1500 mm 2468, 22 AWG for 12 V ouput, 24 AWG for other outputs, 2C Black and White. Black - Negative, White - Positive

