

ZVC90 Series

Single output 80W to 90W AC/DC External Adapters



- 12V at 6.6A and 15V at 5.3A models
- Efficiency to 92%
- Universal input
- EN55022-B, FCC Part 15 Level B Noise
- Class 2 safety approvals



Model Number	Case Type	Output Voltage	Output Current	Peak Current	OCP Limit
ZVC90NS12E	NS	12V	6.66A	7.5A	9.5A
ZVC90NS15E	NS	15V	5.33A	6.0A	8.0A
ZVC90NS19E	NS	19V	4.7A	5.0A	6.5A
ZVC90NS24E	NS	24V	3.75A	3.75A	5.6A
ZVC90NS48E	NS	48V	1.87A	1.87A	2.8A

INPUT SPECIFICATIONS

AC Input	Universal	90 to 264V
Efficiency		92%
Input Frequency		47-63 Hz
Input Current	Full load at low line	1.3Arms, max
Inrush Current	High line, cold start	50A, max
Leakage Current		<100µA
Harmonic Currents	EN61000-3-2	Class A & D

OUTPUT SPECIFICATIONS

Output Power		80 to 90W
Minimum Load		0.0A
Hold-Up Time		30ms
Set Point Accuracy		+5%
Line Regulation	Low line to high line	<0.5%
Load Regulation	Min to full load	<5.0%
Transient Response	50% to Full Load	
	Voltage Deviation	<3%
	Recovery Time	<5ms
Ripple and Noise	Peak to peak	<1.5%
Overshoot		<10%
Output Rise Time	10% to 90% Load	<50ms
Turn-on Delay		<2s
OVP		Yes
Overload Protection		Yes
Short Circuit Protection	Auto Recovery <10s	<0.5A

ENVIRONMENTAL SPECIFICATIONS

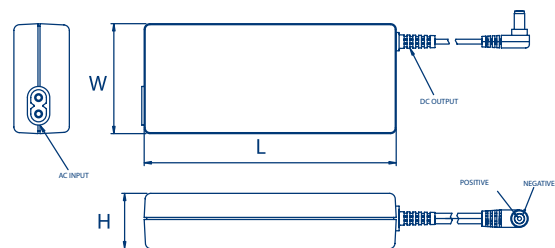
Operating Temperature	Full load	0 to 35°C
	Derate power by 25%	35 to 45°C
Storage Temperature		-40 to 85°C
Cooling		Convection
Relative Humidity	Non condensing	95%, max
MTBF	MIL-HDBK-217F	>100,000 hrs

EMC AND SAFETY SPECIFICATIONS

CE Mark	Complies with the LVD and EMC Directives
EMC - Emissions	EN55022-B, CISPR22-B, FCC Part 15 Class B, EN50082-1
EMC - Susceptibility	EN61000-4-2 (level 3), -4 (level 2), -5 (level 2)
Agency Approvals	VDE, UL, c-UL, Semko, Demko, CCIB, Fimko, Nemko, QAS, GOST, MITI,
Safety Standards	IEC950 CSA C22.2 No. 950, EN60950, UL1950 class 2 SELV
Safety File numbers	VDE: 18934-3336 UL: E150565

MECHANICAL SPECIFICATIONS

Input Connector	IEC320 C8
Output Connector	Right angle, hollow coax plug 0.10" (2.54mm) inside and 0.21" (5.49mm) outside diameter. Center positive polarity
Size	2.28x5.24x1.15" (57.9x133.1x29.2mm)
Weight	10oz (290g)



ALL DIMENSIONS ARE IN INCH
GENERAL TOLERANCE: ±0.004

Case Type	Length (L) in/mm	Width (W) in/mm	Height (H) in/mm	Input Connector
NS	5.24/133.1	2.28/57.1	1.15/29.2	IEC320 C8