

# ZVC45 Series

## Single output 20W to 45W AC/DC External Adapters

So small it's hardly there. Packing 8 watts per cu. inch the EOS ZVC45 "Micro Z model" adapters range in power from 20 watts to 45 watts and are available in popular voltage outputs from 5 volts to 24 volts.

Applications include low power LAN/WAN routers, hubs and switches, industrial products, computing equipment, multi-media gear and many general electronics applications. Millions are in operation with leading product brands. These small package, big power adapters provide greater than 90% efficiency converting AC power to DC. The cell phone size *Micro Z* measures a mere 3.50" x 1.76" x 0.967" and weighs under 6 ounces. The ZVC45 *Micro Z* adapters feature auto ranging AC input from 90v to 264v, operating temperature of 0 to 40 degrees C and have worldwide safety and agency certifications and are RoHs compliant. Our factory also is ISO140001 environmentally approved.



### Features :

- > High power density up to 8W/in<sup>3</sup>
- > Efficiency to 90%
- > Smallest 45W adapter
- > EN55022-B, FCC Part 15 Level B Noise safety approvals
- > Class 2 safety approvals

Model Number	Case Type	Voltage	Current	Min Current Limit Point
ZVC20FS05E	FS	5V	4.00A	5.00A
ZVC25FS09E	FS	9V	2.77A	3.50A
ZVC36FS12E	FS	12V	3.00A	3.37A
ZVC36FS15E	FS	15V	2.40A	2.60A
ZVC36FS19E	FS	19V	1.90A	2.05A
ZVC36FS24E	FS	24V	1.50A	1.62A
ZVC45FS19E	FS	19V	2.36A	2.52A
ZVC45FS24E	FS	24V	1.87A	2.00A

INPUT SPECIFICATIONS		
AC Input	Auto - Ranging	90 to 132V 180 to 264V
Efficiency	5V Other Models	82% >90%
Input Frequency		47-63 Hz
Input Current	Full Load at low line	1.1Arms, max
Inrush Current	High Line , cold start	40A, Max
Leakage Current		<250 $\mu$ A

OUTPUT SPECIFICATIONS		
Output Power		20 to 45W
Minimum Load	5V output models 9V output models Other models	0.5A 0.2A 0.0A
Hold-Up Time		10ms
Set Point Accuracy		$\pm$ 5%
Line Regulation	Low line to high line	$\pm$ 0.5%
Load Regulation	Min to Full Load	$\pm$ 5%
Transient Response	2.5% Load Change from mid level Voltage Deviation Recovery Time ZVC20 & 25FS ZVC36 & 45FS	<3%  <1ms <3ms
OVP		YES
Overload Protection		Yes
Short Circuit Protection	Auto Recovery <3s	Short Term
Ripple and Noise	5V Other voltages	60mV 1%
Output Rise Time		<10ms

All EOS power supplies have UL, CSA and Nemko safety compliance and medical versions meet UL60601-1 standards. All our products are RoHs compliant. Visit us at [www.eospower.com](http://www.eospower.com). EOS brand power supplies and patents are owned exclusively by EOS Power. All Rights Reserved.



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MECHANICAL SPECIFICATIONS		EMC AND SAFETY SPECIFICATIONS	
Input Connector	IEC320 C8	CE Mark	Complies with low voltage and EMC Directives
Output Connector	Right angle, hollow coax plug 0.10" (2.54mm) inside and 0.216" (5.49mm) outside diameter. Center positive polarity	EMC	EN5022-B, CISPR22-B, FCC Part 15 Class B, EN50082-1
Size	3.5 x 1.76 x 0.967 " (88.9 x 44.7 x 24.57 mm)	Agency Approvals	NEMKO, UL, c-UL, GOST, CCIB, MITI, PCBC, MEEI
Weight	5oz (150g)	Safety Standards	IEC60950, CSA C22.2 No. 60950, EN60950, UL1950 Class 2 SELV
ENVIRONMENTAL SPECIFICATIONS		Safety file numbers	NEMKO: P06206737 UL : E150565
Operating Temperature			0 to 40° C
Storage Temperature			-40 to 85° C
Cooling			Convection
Relative humidity	Non condensing		95%, max
MTBF	MIL-HDBK 217F		> 100,000 hrs

