

# ZVC SERIES

AC / DC Single Output: 25~90 Watts



## Features

- Universal input: 90 ~ 264vac 90 watt models
- Auto Ranging input: 25 ~ 65 watt models
- High power density: 8 watts per cubic inch
- Ultra miniature package / low weight
- Meets international EMC standards
- CE and C-Tick marked
- International Safety Approvals
- Safety approval SG / NS Models, AS / NZS 60950 ( No. 23963 )
- MTBF > 100,000 hrs
- OVP and Overload protection
- **Medical Grade Options:** consult office
- Suitable for a wide range of Industrial, Telecommunications and Data Networking applications

## Specifications

<b>Input Voltage</b>	90 ~132 / 180 ~ 264VAC ( Auto-ranging FS & SG Models ) 90 ~ 264VAC NS models
<b>Efficiency</b>	Model dependent: 82 ~ 92%
<b>Frequency</b>	47 – 63Hz
<b>Input Current ( @ 100vac )</b>	FS models 1.1A SG models 1.5A NS models 1.5A
<b>Leakage Current</b>	< 250µA
<b>Harmonic Currents</b>	NS models EN61000-3-2
<b>Output Power</b>	25 – 90 watts refer to table
<b>Output Voltage</b>	5 – 48vdc refer to table
<b>Voltage Adjustment</b>	N/A
<b>Minimum Load -FS</b>	5V models 0.5A, 9V models 0.2A Other models zero
<b>Minimum Load</b>	Zero: ZG / NS models
<b>Hold Up Time</b>	Model dependent < 30ms
<b>Output Voltage Set Accuracy</b>	< 5%
<b>Output Rise time</b>	Model dependent 10ms to 2s
<b>Line Regulation</b>	< 0.5%
<b>Load regulation</b>	Minimum to Full load < 5%
<b>Transient Response</b>	10% to Full Load, voltage Deviation <5% recovery time <5ms

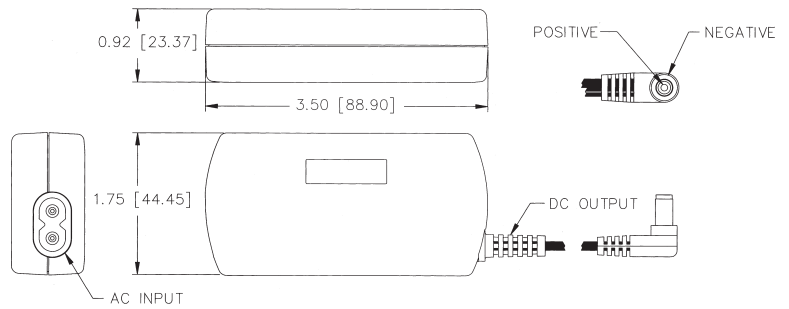
<b>Over Voltage Protection</b>	Yes all models
<b>Overload Protection</b>	Yes all models
<b>Short Circuit Protection</b>	Auto Recovery <3s
<b>Ripple &amp; Noise</b>	<1.5% output voltage pk-pk
<b>CE Mark</b>	YES
<b>EMC Emissions</b>	EN55022-B, CISPR22-B
<b>EMC Susceptibility</b>	EN61000-4-2, -4-5 level 3
<b>Safety Approvals</b>	EN60950, UL1950
<b>Insulation</b>	Class II double insulated
<b>Isolation</b>	Input – output : 3000vac Output – Ground: 500vdc
<b>Operating Temperature</b>	0°C to +40°C at full load Derate 2.5% per °C from 40° 50°C
<b>Cooling</b>	Convection cooled
<b>Humidity</b>	5-95% non condensing
<b>Indicator</b>	None
<b>Input Connector</b>	IEC320 C8 two pin Optional mains power cord.
<b>Output Connector</b>	Right angle, barrel plug 2.54mm ID, 5.49mm OD, 9.6mm length Centre positive
<b>Dimensions</b>	FS models: 45 x 90 x 24mm SG models: 107 x 44 x 30mm NS models: 58 x 133 x 30mm
<b>Weight</b>	FS & SG models: 200g NS models: 290g

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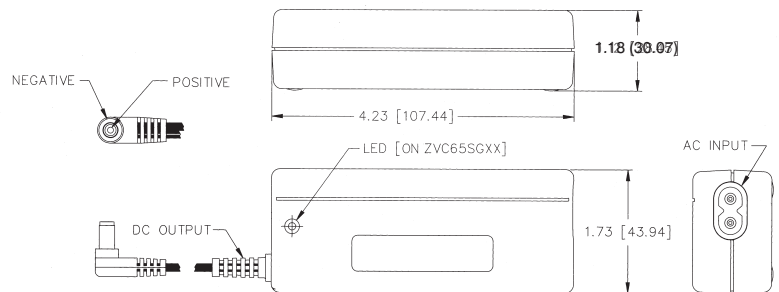
## FS Models

Model	Output		Power W
	V	A	
ZVC20FS05E	5V	4.0A	20W
ZVC36FS12E	12V	3.0A	36W
ZVC36FS15E	15V	2.4A	36W
ZVC36FS24E	24V	1.5A	36W
ZVC45FS19E	19V	2.36A	45W
ZVC45FS24E	24V	1.87A	45W



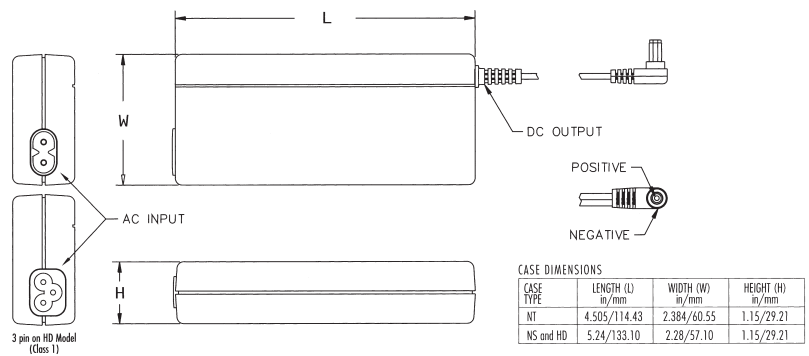
## SG Models

Model	Output		Power W
	V	A	
ZVC45SG12E	12V	3.75A	45W
ZVC55SG15E	15V	3.66A	55W
ZVC65SG19E	19V	3.4A	65W
ZVC65SG24E	24V	2.7A	65W
ZVC65SG48E	48V	1.35A	65W



## NS Models

Model	Output		Power W
	V	A	
ZVC90NS12E	12V	6.66A	80W
ZVC90NS15E	15V	5.33A	80W
ZVC90NS19E	19V	4.7A	90W
ZVC90NS24E	24V	3.75A	90W
ZVC90NS48E	48V	1.87A	90W



**OPTION:** We are able to provide most of the ZVC series products in an assembly such as this, that allows the user to install & fix this assembly onto a panel via the mounting flanges and base plate. Mains power cord included.