

Universal input 85 - 264V AC (ZWS5- ZWS50 models)
Power levels from 5 to 150 watts
Wide range of output voltages (3.3 - 48V)
Harmonic Current per EN61000-3-2
Floating output, fully isolated
EMC to EN55011-B
EN60950, UL1950, AS3260 No. CS7067N Cert
Convection cooled
OVP and overload protection.
Open Frame or vented case packaging options

Suitable for a wide range of industrial, automation and telecom applications.

◆ 24 Month Warranty

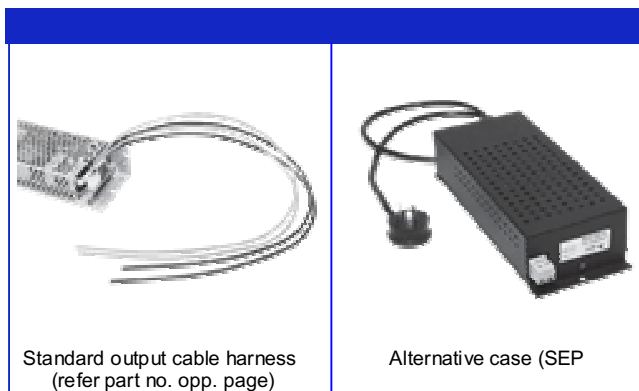
SPECIFICATIONS All specifications are typical at nominal input, full load and at 25°C unless otherwise stated.

ELECTRICAL		
AC Input	ZWS5 - ZWS50:	85 - 264V AC
	ZWS75 - ZWS150:	110 / 230V AC
DC Input	ZWS5 - ZWS50:	110 - 330V DC
	ZWS75 - ZWS150:	220 - 330V DC
Frequency	ZWS5 - ZWS50:	47 - 440Hz
	ZWS75 - ZWS150:	47 - 63Hz
Fusing / Protection		
Isolation	3KV AC input - output 2KV AC input - chassis 500V AC output - frame	
Efficiency	Model dependant (65 - 80%)	
Inrush current		
Output Power	Refer model table (5 - 150W)	
Output Voltages	Refer model table (3.3 - 48V)	
Voltage adj. range	Typically $\pm 10\%$ of nominal.	
Temp Co-Efficient	$\pm 0.02\%$ per °C	
Current Limit	ZWS5 - ZWS30:	Short circuit fold back protect (typ. 30 sec.)
	ZWS75 - ZWS150:	Set to approx 110% of rated output with auto recovery.
Line Regulation	Typically $\pm 0.4\%$ over input range	
Load Regulation	Typically $\pm 0.6\%$ from no load to full load	
Ripple		
Output Noise	Typically 1% of nominal V out	
Hold up time	Typically 20ms at rated power and input	
Start up time	Typically 3 seconds	
OVP	ZWS5 - ZWS30:	Zener Shutdown
	ZWS75 - ZWS150:	OVP will shutdown unit, manual reset by AC line recycle.
Minimum Load	Units will operate with zero load	

PHYSICAL	
Connections	Plug in connector / cable harness
Weight	Refer model table (65 - 510gm (PCB))
Mounting	(data)
Cooling	Convection cooled

ENVIRONMENTAL	
Operating temperature	-10 - 50° C at full load. Derate from 50° C to 60° C
Humidity	
Altitude	
Vibration	2G constant operating
Shock	<20G

STANDARDS	
Safety	Approved to IEC950, EN60950, UL1950, AS3260
EMI / RFI	EN55011 - B, EN55022 - B
Harmonics	ZWS75 - ZWS150: EN61000-3-2



5 - 150 Watt AC/DC Open frame single output switchmode DC Power Supplies



STANDARD PREFERRED MODEL TABLE

MODELS	Volts	Amps	Watts
ZWS5 - 3 - JA	3.3V	1.0A	3W
ZWS5 - 5 - JA	5V	1.0A	5W
ZWS5 - 12 - JA	12V	0.42A	5W
ZWS5 - 15 - JA	15V	0.34A	5W
ZWS5 - 24 - JA	24V	0.22A	5W
ZWS10 - 3 - JA	3.3V	2.0A	6.6W
ZWS10 - 5 - JA	5V	2.0A	10W
ZWS10 - 12 - JA	12V	0.85A	10W
ZWS10 - 15 - JA	15V	0.7A	10W
ZWS10 - 24 - JA	24V	0.45A	10W
ZWS15 - 3 - JA	3.3V	3.0A	10W
ZWS15 - 5 - JA	5V	3.0A	15W
ZWS15 - 12 - JA	12V	1.25A	15W
ZWS15 - 15 - JA	15V	1.0A	15W
ZWS15 - 24 - JA	24V	0.65A	15W
ZWS30 - 3 - JA	3.3V	6.0A	20W
ZWS30 - 5 - JA	5V	6.0A	30W
ZWS30 - 12 - JA	12V	2.5A	30W
ZWS30 - 15 - JA	15V	2.0A	30W
ZWS30 - 24 - JA	24V	1.3A	30W
ZWS30 - 36 - JA	36V	0.9A	30W
ZWS30 - 48 - JA	48V	0.7A	30W
ZWS50 - 3 - JA	3.3V	10.0A	33W
ZWS50 - 5 - JA	5V	10.0A	50W
ZWS50 - 12 - JA	12V	4.3A	50W
ZWS50 - 15 - JA	15V	3.5A	50W
ZWS50 - 24 - JA	24V	2.1A	50W
ZWS50 - 36 - JA	36V	1.4A	50W
ZWS50 - 48 - JA	48V	1.1A	50W

MODELS	Volts	Amps	Watts
ZWS75PF - 3 - JA	3.3V	15.0A	50W
ZWS75PF - 5 - JA	5V	15.0A	75W
ZWS75PF - 12 - JA	12V	6.3A	75W
ZWS75PF - 15 - JA	15V	5.0A	75W
ZWS75PF - 24 - JA	24V	3.2A	75W
ZWS75PF - 28 - JA	28V	2.7A	75W
ZWS75PF - 36 - JA	36V	2.1A	75W
ZWS75PF - 48 - JA	48V	1.6A	75W
ZWS100PF - 3 - JA	3.3V	20.0A	66W
ZWS100PF - 5 - JA	5V	20.0A	100W
ZWS100PF - 12 - JA	12V	8.5A	100W
ZWS100PF - 15 - JA	15V	6.7A	100W
ZWS100PF - 24 - JA	24V	4.3A	100W
ZWS100PF - 28 - JA	28V	3.6A	100W
ZWS100PF - 36 - JA	36V	2.8A	100W
ZWS100PF - 48 - JA	48V	2.1A	100W
ZWS150PF - 3 - JA	3.3V	30.0A	100W
ZWS150PF - 5 - JA	5V	30.0A	150W
ZWS150PF - 12 - JA	12V	12.5A	150W
ZWS150PF - 15 - JA	15V	10.0A	150W
ZWS150PF - 24 - JA	24V	6.3A	150W
ZWS150PF - 28 - JA	28V	5.4A	150W
ZWS150PF - 36 - JA	36V	4.2A	150W
ZWS150PF - 48 - JA	48V	3.2A	150W
ZWS120PPF - 24 - A	24V	5A / 10A	120W
ZWS120PPF - 28 - A	28V	4.3A / 8.6A	120W
ZWS120PPF - 36 - A	36V	3.4A / 6.7A	120W

J = JST type connector
A = Vented case
Peak A output set at approx. 120% for 30 sec. maximum

For PCB only version, remove suffix 'A' from the part number

- ◆ Not suitable for parallel operation
- ◆ Suitable for series operation

CABLE HARNESS PART NUMBERS

H-IN-5L: Input 5 - 150W models
H-OU-8L: Output 5 - 15W models
H-OU-9L: Output 30 - 50W models
H-OU-18L: Output 75W models
H-OU-9L: Output 120W models
H-OU-10L: Output 100W models
H-OU-11L: Output 150W models
H-OU-12L: Output 150W models

MOUNTING DETAILS / DIMENSIONS

Please contact us for a specific drawing of your preferred power supply

Dimensions:

Open Frame	L	W	H	Weight
ZWS5	98	45	21mm	65gm
ZWS10	105	50	21mm	75gm
ZWS15	125	50	21mm	95gm
ZWS30	133	55	26mm	200gm
ZWS50	195	55	26mm	250gm
ZWS75	222	55	35mm	320gm
ZWS100	222	62	35mm	360gm
ZWS120	208	80	40mm	380gm
ZWS150	222	75	40mm	510gm

Vented Case	L	W	H	Weight
ZWS5-A	118	52	32mm	180gm
ZWS10-A	125	57	32mm	200gm
ZWS15-A	145	57	32mm	300gm
ZWS30-A	163	65	36mm	370gm
ZWS50-A	225	65	36mm	500gm
ZWS75-A	252	65	42mm	900gm
ZWS100-A	253	72	45mm	900gm
ZWS120-A	236	90	47mm	1200gm
ZWS150-A	252	85	47mm	1400gm