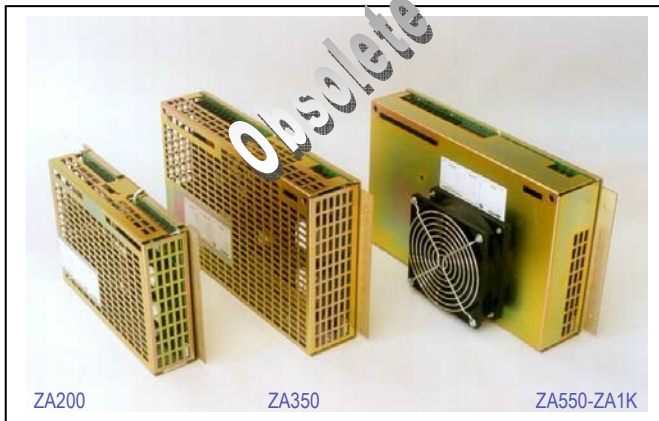


ZA SERIES

AC/DC & DC/DC Single Output: 200 ~ 1000 Watts



Features

- AC and DC Input options
- 200 ~ 1100 watt power levels
- Universal input with PFC option
- Meets EN55022 Lev A radiated & conducted.
- Parallel operation with power share option
- N+1 Redundancy option code "D"
- External signal options
- Flexible design allows for wide range of dc output options
- Suitable for battery charging...consult office for details on "CA" series.
- Eurocard option ZE series 200 Watts models

Specifications:

Input voltage (AC Input)	110 / 240VAC (90-132 / 175-264) Link Selectable – Standard AC Input 90~264VAC Universal input with PFC - Optional
Input voltage (DC Input)	24VDC (21~30) 36VDC (30 ~ 45) 48VDC (40~60) 100VDC (90 ~ 135) 220VDC (180 ~ 270) 300VDC (250 ~ 370)
Frequency	44 ~ 66Hz (400Hz optional)
Power	200 ~ 1100 watts – see table
Earth Leakage	Model dependent <2.5mA
Output Voltage	12 ~ 300vdc options – see table
Voltage Adjustment	Yes, by on-board potentiometer- see table for adjustment range.
Efficiency	Model dependent 70 ~ 96%
Input Protection	Inrush current limiting and input fuse
Safety	Designed to meet IEC950 / EN60950
Hold Up Time	AC input models typically 18ms DC input models typically 5ms
Isolation (AC Input)	Input - output 6-KVDC Input - chassis 2200VDC Output - chassis 500VDC
Isolation (DC Input)	Input - output 6KVDC for >100V inputs Input - output 1KVDC for <60V inputs Input - chassis 2200VDC Output - chassis 500VDC
EMC Emissions	EN55022 Class A radiated EN55022 Class B conducted
EMC Immunity	EN61000 -4 - 2 level 3,4 ESD EN61000 -4 - 5 level 3 SURGE EN61000 -4 - 4 level 3 BURST EN50140 level 3 radiated EN50140 level 3 conducted

Over Voltage Protection	Set at approx 120% of nominal electronic crow bar. Recycle input power to reset
Overload Protection	Constant current limit with auto reset and short circuit protection.
Ripple & Noise	Model dependent <0.2%rms, <2% pk-pk
Dynamic Regulation	<1% for 10% load change
Static Regulation	<1% for 0-100% load change singles
Line Regulation	0.5% over input range
Minimum Load	Units will operate with zero load but require 10% loading to meet stated regulation
Remote Sense	Compensate for 0.5V maximum line drop.
Cooling	200 and 350W models convection cooled 300, 550 and 750W models fan forced.
Operating Temp.	0° to 40°C at rated power. Consult office for derating graphs to 60°C
Connections	Screw Terminals
MTBF	Model dependent typically 100-200khrs
Parallel operation	Yes, see options
Signals / Alarms	Yes, see options
Dimensions	ZA200: 55 x 160 x 260mm ZA300: 82 x 160 x 260mm ZA350: 63 x 190 x 340mm ZA550: 102 x 190 x 340mm ZA750: 102 x 190 x 340mm ZA1K: 102 x 190 x 340mm ZE200: Eurocard 6U x 12TE x 160mm

ZA SERIES

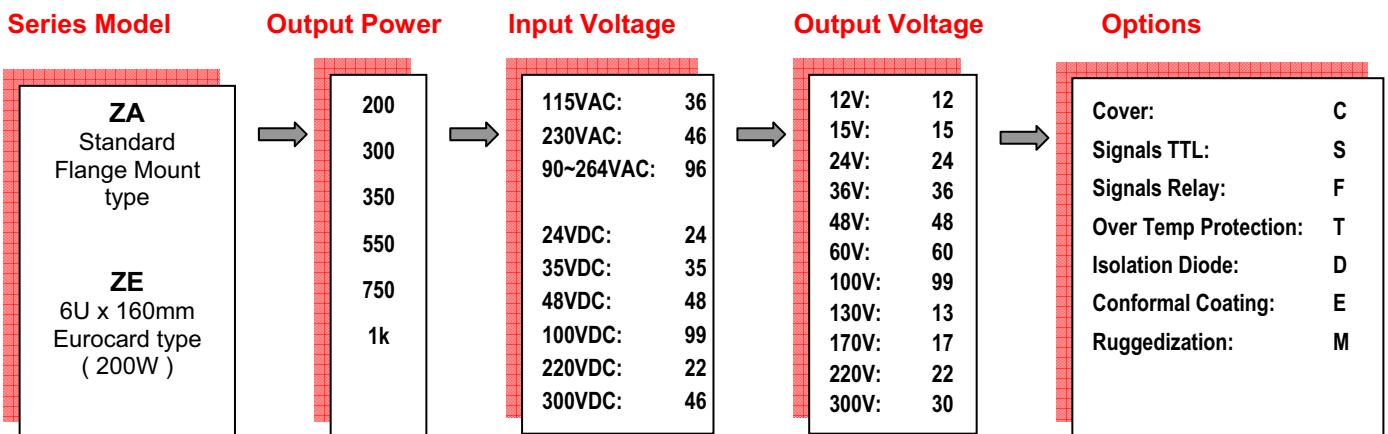
AC/DC & DC/DC Single Output: 200 ~ 1000 Watts

The **ZA** series power supplies, were designed to offer a wide range of AC or DC input for Industrial applications. They offer output voltage options up to 300vdc and power levels from 200 ~ 1100 watts.

Options :

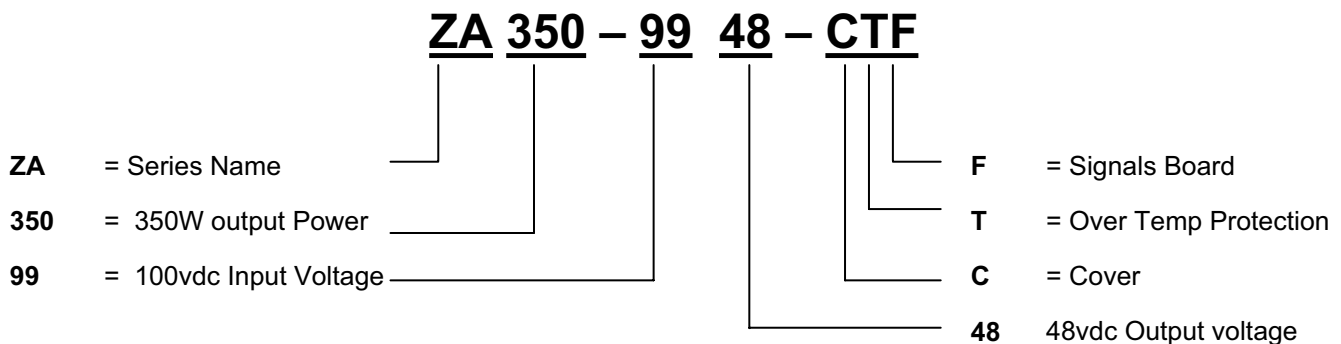
Code	Description
T:	Over temperature protection. Operates when internal temperature exceeds design maximum. For all fan cooled units (300 and > 550 watts, this options is fitted as standard.
S:	Signals Board: Offering TTL signals for System Reset, Input Power Fail, Output Fail, Power Monitor, Power Share and Remote ON /OFF.
F:	Signals Board: Offering Relay voltage free contacts for Input Power Fail, Power Share, Power Monitor and Remote ON/OFF. (Relay contact ratings: 24vdc @ 1A, 120vac 0.5A)
D:	Output isolation Diode for us in N+1 redundancy and parallel applications.
E:	Conformal coating for operation in high humidity environments.
M:	Ruggedization

Model Numbering Codes:



Model Number Example:

Using the table over the page and the above coding system, you can configure the complete model no.



ZA SERIES

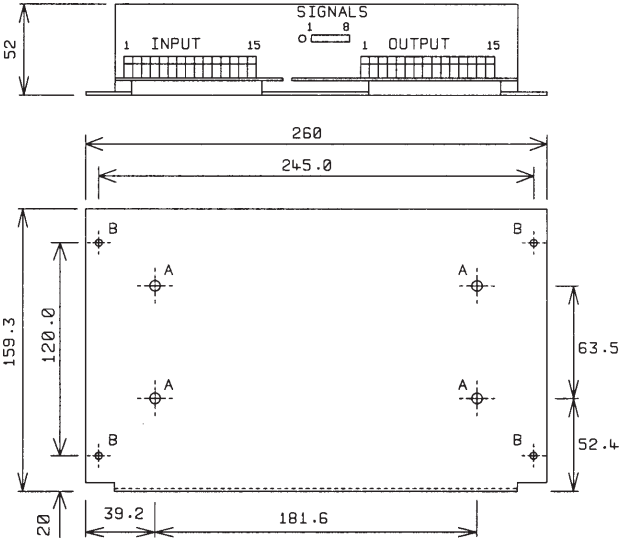
AC/DC & DC/DC Single Output: 200 ~ 1000 Watts

Input Voltage Options & Power	Output Voltage & Current Ratings											
	12V	15V	24V	36V	48V	60V	100V	130V	170V	220V	300V	
ZA200												
24VDC / 36VDC	17A	14A	8.4A	5.6A	4.2A	3.3A	2.1A	1.6A	1.2A	1.0A	0.7A	
48VDC												
100VDC												
115VAC												
230VDC												
240VAC												
100~264VAC												
ZA300												
24VDC / 36VDC	25A	20A	12.5A	8.3A	6.3A	5.0A	3.0A	2.3A	1.8A	1.4A	1.1A	
48VDC												
100VDC												
115VAC												
230VDC												
240VAC												
100~264VAC												
ZA350												
24VDC / 36VDC	29A	23A	15A	10A	7.3A	5.8A	3.5A	2.7A	2.1A	1.6A	1.2A	
48VDC												
100VDC												
115VAC												
230VDC												
240VAC												
100~264VAC												
ZA550												
24VDC / 36VDC	46A	37A	23A	15A	11A	9A	5.5A	4.2A	3.2A	2.5A	1.8A	
48VDC												
100VDC												
115VAC												
230VDC												
240VAC												
100~264VAC												
ZA750												
48VDC	63A	50A	31A	21A	16A	12.5A	7.5A	5.8A	4.4A	3.4A	2.5A	
100VDC												
220VDC												
240VAC												
ZA1KW												
220VDC	----	---	46A	31A	23A	18A	11A	8.5A	6.5A	5A	3.7A	
240VAC												
Output Voltage Range	10.8 14.4V	13.5 18.0V	21.6 28.8V	32.5 43.2V	43.5 57.5	54.0 72.0V	90 120V	120 155V	155 202V	200 260V	250 360V	

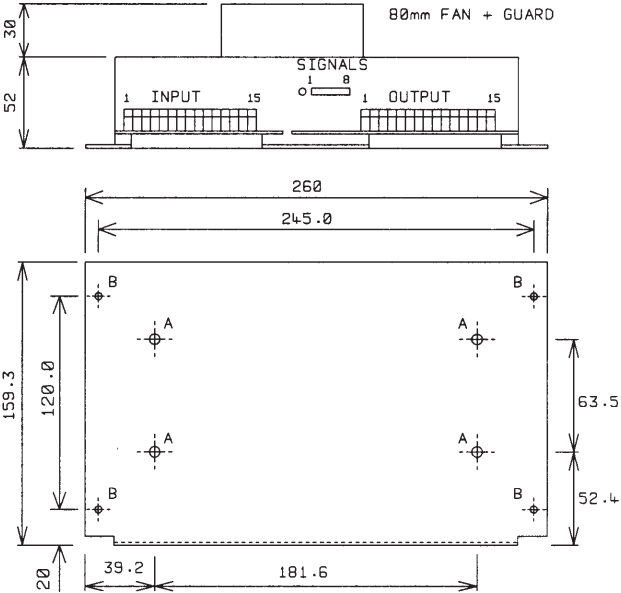
ZA SERIES

AC/DC & DC/DC Single Output: 200 ~ 1000 Watts

ZA200

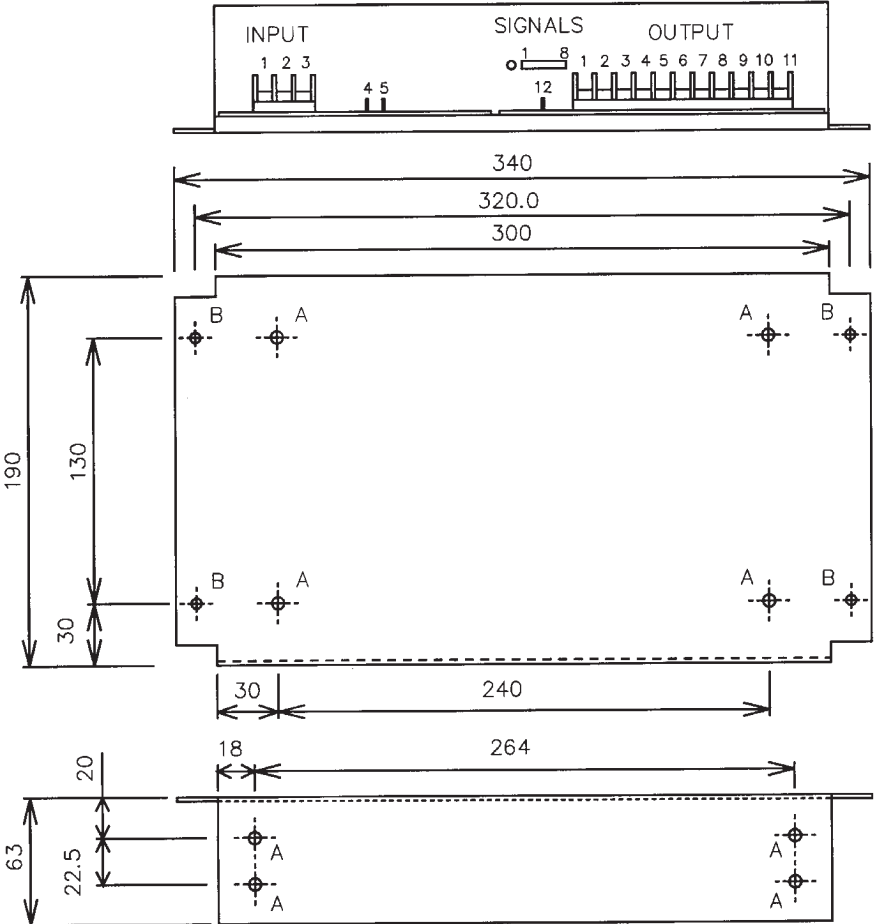


ZA300



ZA350

12V dc

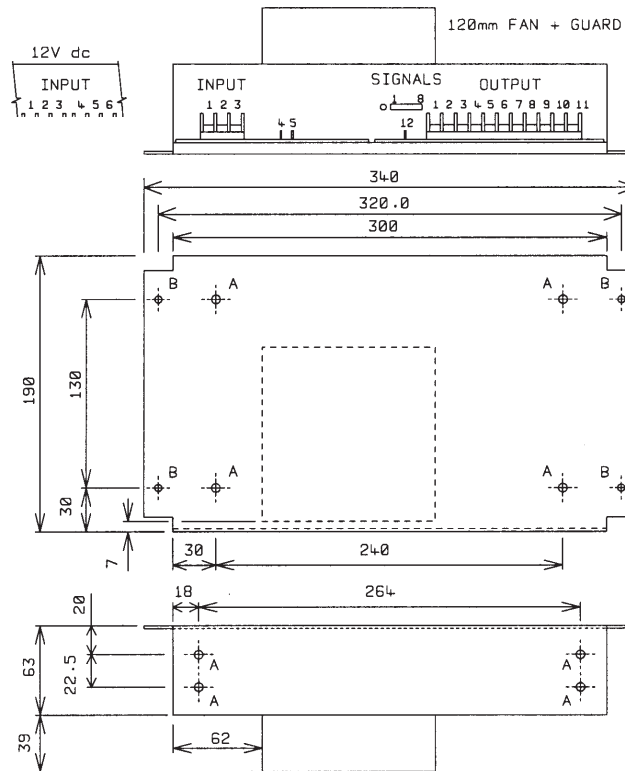


All dimensions in mm

ZA SERIES

AC/DC & DC/DC Single Output: 200 ~ 1000 Watts

ZA550, ZA750, ZA1K



Connector Details: 200 - 300W. H15 & 5mm pitch Terminal Block

INPUT					OUTPUT			
T/B	H15	AC	>12VDC	12VDC	T/B	H15	MULTI	SINGLE
1	32	Earth	Earth	Earth	1	32		
2	30	N/C	POS	POS	2	30		
3	28	Neutral	POS	POS	3	28		
4	28	N/C	NEG	POS	4	26	ROF	ROF
5	24	LNE	NEG	NEG	5	24	+VS	DVS
6	22	N/C	N/C	NEG	6	22	OP1	0V
7	20	115V	N/C	NEG	7	20	OP1	0V
8	18	LNK	N/C	N/C	8	18	OP1	0V
9	18	N/C	N/C	N/C	9	16	0V	0V
10	14	N/C	N/C	N/C	10	14	0V	0V
11	12	N/C	N/C	N/C	11	12	0V	+V
12	10	N/C	N/C	N/C	12	10	OP2	+V
13	8	N/C	N/C	N/C	13	8	OP3	+V
14	6	N/C	N/C	N/C	14	6	OP4	+V
15	4	N/C	N/C	N/C	15	4	OP5	+VS

Signal Options:

Available on request - see separate table for Eurorack

PIN	S	R	B	F
1	SRS	NO. Fail	BF. NO	OPF. NO
2	ACF or IPF	COM. Fail	BF. COM	OPF. COM
3	DCF or OPF	NC. Fail	BF. NC	OPF. NC
4	PM	PM	PM	PM
5	PS	PS	PS	PS
6	ROF	ROF	IPF. NO	IPF. NO
7	+VS	+VS	IPF. COM	IPF. COM
8	OVS	OVS	IPF. NO	IPF. NO

Eurorack Signal Options

H15	S	R	B	F
32	PS	PS	BF. NO	OPF. NO
30	AC or IPF	NO. Fail	IBF/BF. COM	IPF/OPF. COM
28	SRS	CO110V:	48VDC/150W DCP	IPF/OPF. TERM. Fail

Connector Details: 350 - 1Kw. 9.5mm pitch Terminal Block

INPUT			OUTPUT		
T/B	AC	DC	T/B	MULTI	SINGLE
1	Earth	Earth	1	+VS	0VS
2	Neutral	POS	2	OP1	0V
3	LNE	NEG	3	OP1	0V
4	115V	-	4	OP1	0V
5	LNK	-	5	0V	0V
6	-	-	6	0V	0V
			7	0V	+V
			8	OP2	+V
			9	OP3	+V
			10	OP4	+V
			11	OP5	+VS
			12	ROF (Pin)	ROF (Pin)

ACF or IPF = Input fail NC = Close on Fail
 DCF or DPF = Output fail NO = Open on Fail
 BF = Battery fail
 PM = Power monitor
 PS = Power share
 ROF = Remote On/Off
 SRS = System reset