

Convel 32000 Series Open Frame AC/DC Regulated Linear Power Supplies

These high quality linear regulated power supplies provide outstanding value and are designed for ease of application and long trouble free life.

- ◆ Universal AC input 100 - 240VAC
- ◆ 3.75kV Isolation safety transformer
- ◆ 2 year warranty
- ◆ Quality UK design and manufacture
- ◆ International industry standard sizes
- ◆ Overload protection on all units
- ◆ Safety earth tag



GENERAL SPECIFICATIONS

A.C. Input

100/120/220/240VAC +10%, -12%,
47 to 440Hz

D.C. Output

See Voltage/Current Rating Chart. Adjustment range
±5% minimum.

Line Regulation

±0.05% for a 10% line change.

Load Regulation

±0.05% for a 50% load change.

Output Ripple

2V to 15V units: 5.0mV PK-PK maximum
20V to 28V units: 0.02% PK-PK maximum

Transient Response

50µseconds for a 50% load change

Short Circuit and

Overload Protection

Overvoltage Protection

Automatic current limit/foldback
Built-in on all 5V outputs. Set at 6.2V ±0.4V Other models
use optional overvoltage protection.

See Option 4 overleaf

Remote Sensing

Provided on most models,
open sense load protection built in.

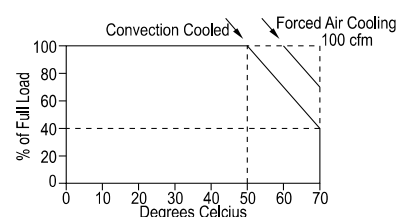
Stability

±0.3% for 24 hour period after 1 hour warm-up

Temperature Rating

Standard Range: 0°C to +50°C full-rated,
derated linearly to 40% at 70°C
Extended Range: -40°C to +50°C full-rated,
derated linearly to 40% at 70°C

TEMPERATURE DERATING CURVE



Temperature Coefficient

±0.03%/°C maximum

Efficiency (typical)

5V unit: 45%; 12V and 15V units: 55%; 24V units: 60%

Isolation

Input to ground: 3750VAC min.

Input to output(s): 3750VAC min.

Output to ground: 500VAC min.

Leakage current (live to ground): 5µA max.

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SINGLE OUTPUT MODELS

Model	Output Voltage Volts	Output Current Amps	Case
32005A	5	3.0	A
32005B	5	6.0	B
32005C	5	9.0	C
32005D	5	12.0	D
32005E	5	18.0	E
32012A	12 to 15	1.7	A
32012B	12 to 15	3.4	B
32012C	12 to 15	5.1	C
32012D	12 to 15	6.8	D
32012E	12 to 15	10.2	E
32024A	24 to 28	1.2	A
32024B	24 to 28	2.4	B
32024C	24 to 28	3.6	C
32024D	24 to 28	4.8	D
32024E	24 to 28	7.2	E
32024E/10	24 to 28	10.0	E
32048A*	48	0.5	A
32048B*	48	1.0	B
32048D*	48	3.0	D
32150A	120 to 200	0.150**	A

* No remote sensing

** Output current from 180 to 200V falls linearly from 150mA to 125mA

DUAL OUTPUT MODELS

Model	Output 1		Output 2		Case
	Voltage Volts	Current Amps	Voltage Volt	Current Amps	
32205A*	5	1.5	-5	1.5	AA
32212A	12 to 15	1.0	-12 to -15	1.0	AA
32212B	12 to 15	1.7	-12 to -15	1.7	BB
32212C	12 to 15	3.4	-12 to -15	3.4	CC
32212D	12 to 15	5.0	-12 to -15	5.0	E

TRIPLE OUTPUT MODELS

Model	Output 1		Output 2		Output 3		Case
	Voltage Volts	Current Amps	Voltage Volts	Current Amps	Voltage Volts	Current Amps	
32305A	5*	2.0	9 to 15*	0.4	-9 to -15*	0.4	AA
32305B	5	3.0	12 to 15	1.0	-12 to -15	1.0	AAA
32305C	5	6.0	12 to 15*	1.0	-12 to -15*	1.0	D
32305D	5	6.0	12 to 15	1.7	-12 to -15	1.7	BBB
32305E	5	8.0	12 to 15	1.7	-12 to -15	1.7	BBB
32305F	5	12.0	12 to 15	1.7	-12 to -15	1.7	DBB
32305G	5	12.0	12 to 15	3.4	-12 to -15	3.4	DCC

OVP Selection Chart

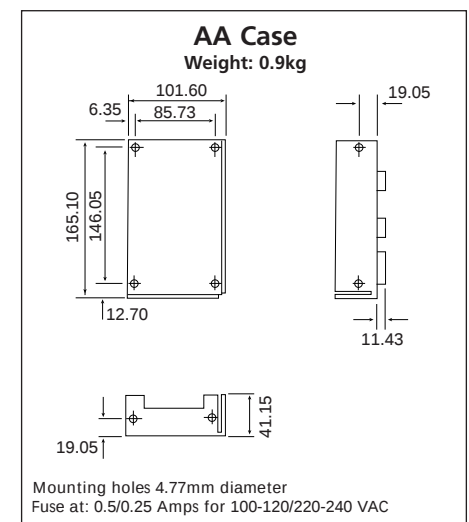
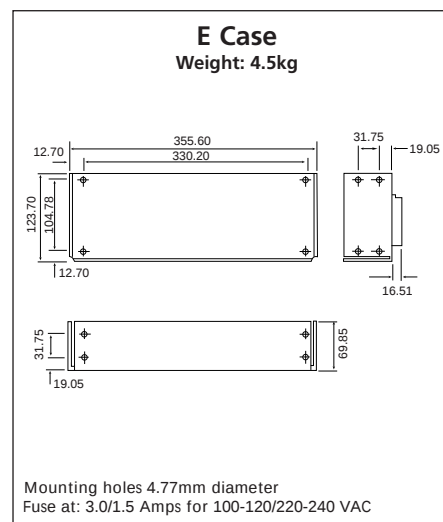
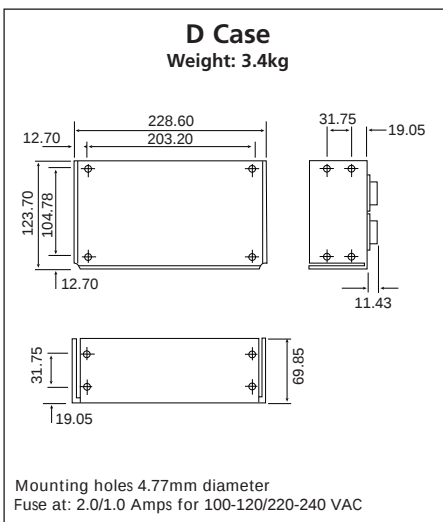
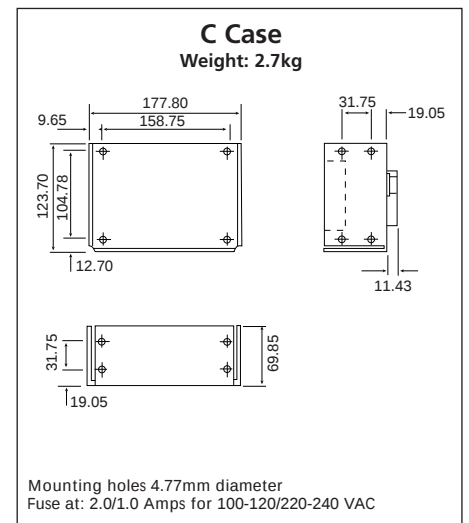
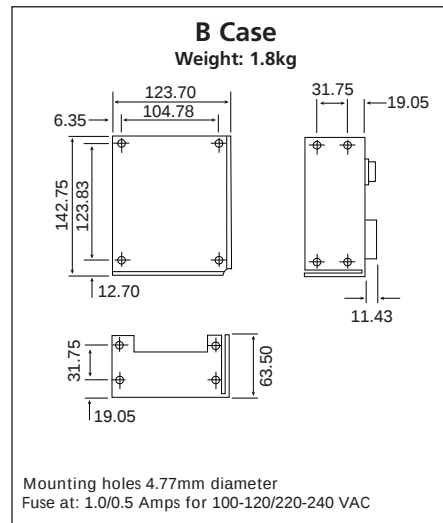
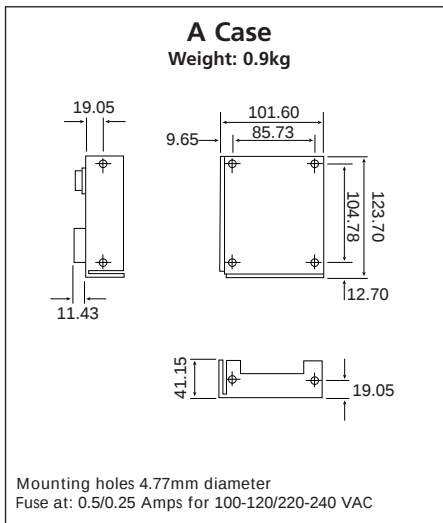
	Case	OVP Model Required
Single Output	A/B/C/D	32901A
	E	32901B
Dual Output	AA/BB/CC	32901A, protects both outputs
	E	32901B, protects both outputs
Triple Output	AA/AAA/D BBB/131	32901A, protects dual outputs OVP built-in on 5V outputs

OPTIONS

- 1 Tropicalisation – suffix code 'T'
- 2 Wide range output voltage adjustment – suffix code 'R' available on 12V and higher output voltages enabling adjustment down to 2V (derate linearly from full load to zero at 2V)
- 3 Low temperature operation -40°C to +50°C – suffix code 'LT'
- 4 Overvoltage Protection Modules – These optional Overvoltage Protection Modules are available for use with any power supply NOT supplied with built-in OVP. Each is adjustable from 6.4V to 34V and should be used when maximum load protection is of prime importance. Response time is 1mS. Mounting holes are provided on the chassis for these modules, which mount within the specified outline dimensions of each power supply.

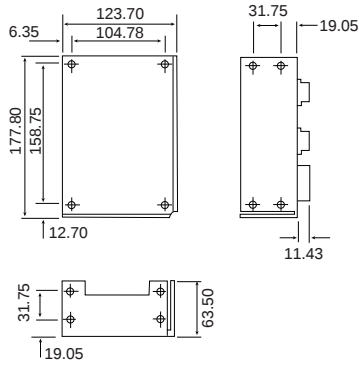
32000 SERIES - GENERAL DIMENSIONS

All dimensions are in mm



BB Case

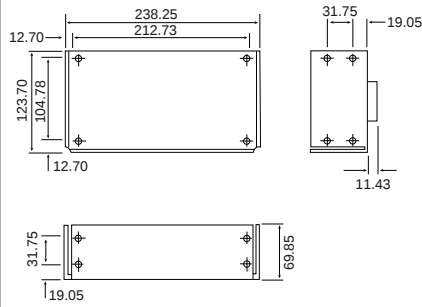
Weight: 1.8kg



Mounting holes 4.77mm diameter
Fuse at: 2.0/1.0 Amps for 100-120/220-240 VAC

CC Case

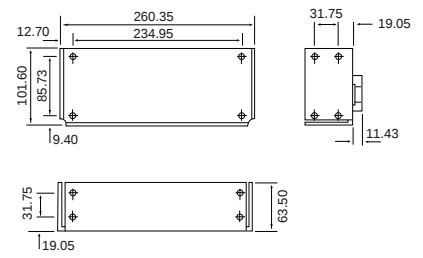
Weight: 3.2kg



Mounting holes 4.77mm diameter
Fuse at: 2.0/1.0 Amps for 100-120/220-240 VAC

AAA Case

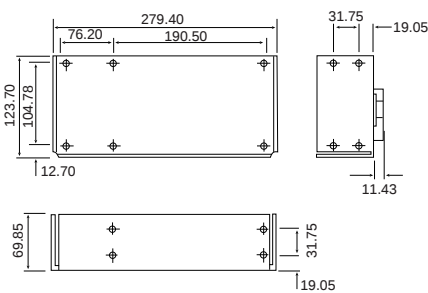
Weight: 2.3kg



Mounting holes 4.77mm diameter
Fuse at: 1.0/0.5 Amps for 100-120/220-240 VAC

BBB Case

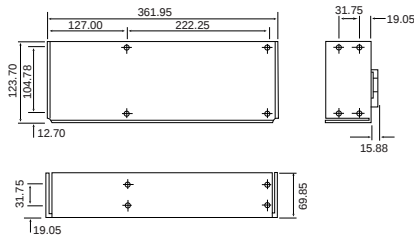
Weight: 3.6kg



Mounting holes 4.77mm diameter
Fuse at: 2.0/1.0 Amps for 100-120/220-240 VAC

DBB Case

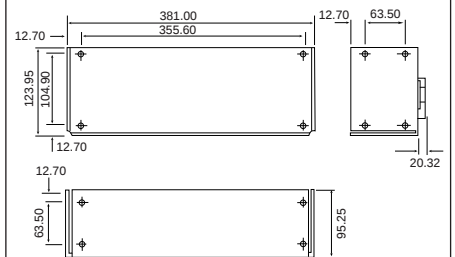
Weight: 5.0kg



Mounting holes 4.77mm diameter
Fuse at: 3.0/1.5 Amps for 100-120/220-240 VAC

DCC Case

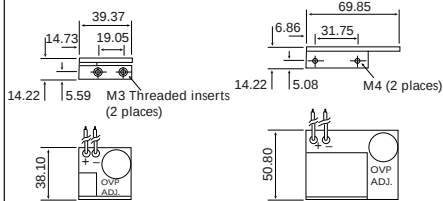
Weight: 5.5kg



Mounting holes 4.77mm diameter

Overvoltage Protection Modules

OVP-12 32901A



OVP-24 32901B

