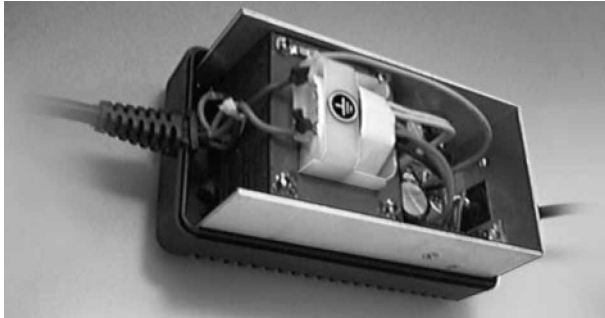


Linear Regulated External Power Supplies

APX manufactures a comprehensive range of regulated linear, power supplies, and with extensive options available, we can optimize a design to your application.



North American Application 120VAC 60Hz Input

A representative list is presented here of standard models.

Bold face listed models are generally available from distribution.

Single Output

Selected Models

Part No.	DC Q/P 1	Case	Size	Agency	
				UL	CSA
AP2771W	+5V @ 300mA	WPI	41	◆	◆
AP3291W	+5V @ 600mA	WPI	48	◆	◆
AP3360W	+5V @ 1000mA	WPI, DT	48	◆	◆
AP3370W	+5V @ 1200mA	WPI, DT	57	◆	◆
AP3549	+5V @ 1750mA	DT	57	◆	◆
AP6801	+6V @ 300mA	WPI	41	◆	◆
AP6802	+6V @ 600mA	WPI, DT	48	◆	◆
AP6804	+9V @ 300mA	WPI	41	◆	◆
AP2107W	+9V @ 500mA	WPI	48	◆	◆
AP3551	+9V @ 700mA	WPI	48	◆	◆
AP6805	+12V @ 125mA	WPI	35	◆	◆
AP6806	+12V @ 250mA	WPI	41	◆	◆
AP2164W	+12V @ 500mA	WPI, DT	48	◆	◆
AP3550W	+12V @ 1000mA	WPI	57	◆	◆
AP3720W	+12V @ 1200mA	DT	60	◆	◆
AP6807	+15V @ 200mA	WPI	41	◆	◆
AP6808	+15V @ 400mA	WPI, DT	48	◆	◆
AP6809	+15V @ 550mA	WPI, DT	57	◆	◆
AP3380	+15V @ 1000mA	DT	60	◆	◆
AP6811	+18V @ 450mA	WPI, DT	57	◆	◆
AP6812	+24V @ 50mA	WPI	35	◆	◆
AP6813	+24V @ 125mA	WPI	41	◆	◆
AP6814	+24V @ 350mA	WPI, DT	57	◆	◆

Typical Features

- ◆ Single or multiple outputs
- ◆ Typical North American input: 120VAC +/-10%, 60Hz
- ◆ Typical line regulation: less than 1%
- ◆ Typical load regulation: less than 5%
- ◆ No minimum load for regulation
- ◆ Very low noise, typically 10mV peak to peak
- ◆ Inherently LOW EMI, RFI
- ◆ Typical operating temperature: 0 to 40 degrees C
- ◆ One year warranty

Dual Outputs

Selected Models

Part No.	DC Q/P 1	DC Q/P 2	Case	Size	Agency	
					UL	CSA
AP3552	5V @ 400mA	+12V @ 800mA	DT	57	◆	◆
AP3730	+5V @ 600mA	+12V @ 1000mA	DT	60	◆	◆
AP3553	+5V @ 1500mA	+12V @ 200mA	DT	57	◆	◆
AP3606	+5.1V @ 750mA	+12V @ 700mA	DT	60	◆	◆
AP3554	+6.25V @ 500mA	+12V @ 700mA	DT	57	◆	◆
AP1914	+6.25V @ 1000mA	+12V @ 500mA	DT	57	◆	◆
AP3556	+6.25V @ 1750mA	+12V @ 100mA	DT	57	◆	◆
AP3166	+15V @ 600mA	-15V @ 600mA	DT	66	◆	◆

Triple Outputs

Selected Models

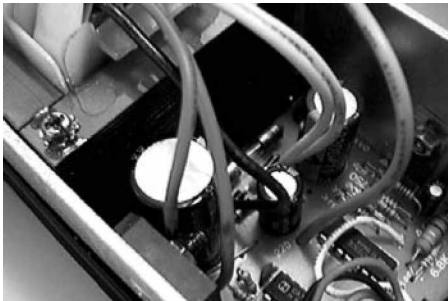
Part No.	DC Q/P 1	DC Q/P 2	DC Q/P3	Case	Size	Agency	
						UL	CSA
AP3718W	+5V @ 450mA	+12V @ 100mA	-12V @ 100mA	WPI	48	◆	◆
AP6815	+5V @ 500mA	+12V @ 100mA	-12V @ 100mA	WPI	48	◆	◆
AP3263W	+5V @ 700mA	+12V @ 400mA	-12V @ 100mA	DT	60	◆	◆
AP2808W	+5V @ 800mA	+12V @ 300mA	-12V @ 300mA	WPI	57	◆	◆
AP3271W	+5V @ 1100mA	+12V @ 900mA	-12V @ 100mA	DT	66	◆	◆
AP3363W	+5V @ 1000mA	+12V @ 500mA	-12V @ 500mA	DT	66	◆	◆
AP3710	+5V @ 1500mA	+12V @ 1100mA	-12V @ 100mA	DT	66	◆	◆
AP2700	+5V @ 500mA	+15V @ 200mA	-15V @ 200mA	WPI	57	◆	◆
AP4469	+5V @ 500mA	+15V @ 500mA	-15V @ 500mA	DT	66	◆	◆
AP2844	+5V @ 1000mA	+15V @ 120mA	-15V @ 120mA	WPI	57	◆	◆
AP2759	+5V @ 1000mA	+15V @ 400mA	-15V @ 400mA	DT	66	◆	◆
AP3039	+5V @ 1500mA	+15V @ 500mA	-15V @ 200mA	DT	66	◆	◆
AP3297	+8V @ 850mA	+12V @ 150mA	-12V @ 150mA	DT	48	◆	◆



Note: All dimensions in millimeters. Specifications subject to change.

Regulated Linear External Power Supplies

IEC 601-1 and UL 2601 medical designs and approvals available for North American and International applications



INTERNATIONAL APPLICATIONS 230VAC, 50HZ INPUT

All European and Pacific Rim input voltages and plugs available. Bold face listings are generally available from distribution.

Selected Models

Part No.	Output 1	Output 2	Output 3	Case	Size	TUV
SINGLE OUTPUT						
AP2771EW	5V @ 300mA			DT	48	◆
AP2703E	5V @ 750mA			DT	48	◆
AP2865E	12V @ 300mA			DT	48	◆
AP3820EW	12V @ 1200mA			DT	60	◆
DOUBLE OUTPUT						
AP3237E	+5V @ 500mA	+12V @ 100mA		DT	48	◆
AP3548E	+5V @ 600mA	+12V @ 1000mA		DT	60	◆
AP3606E	+5V @ 750mA	+12V @ 700mA		DT	60	◆
AP3166E	+15V @ 600mA	-15V @ 600mA		DT	66	◆
TRIPLE OUTPUT						
AP3718EW	+5V @ 450mA	+12V @ 100mA	-12V @ 100mA	DT	EI48	◆
AP3264E	+5V @ 700mA	+12V @ 400mA	-12V @ 100mA	DT	EI60	◆
AP3272E	+5V @ 1100mA	+12V @ 900mA	-12V @ 100mA	DT	EI66	◆

Higher current output available as regulated switch mode supply — consult sales.

“W” model output connectors:
Single output - 2.5 x 5.5 x 11mm female barrel, center positive.
Dual and triple output - 5 pin DIN or virtually any other connector, see page 9

Call for pinout details and data sheets

Non standard pinning or virtually any other connector is available. See page 8 and 9.

Typical case sizes (L x W x H)

EI size	Wall plug in (WPI)	Desk Top (DT)
41	66 x 49 x 42	
48	82 x 56 x 46*	110 x 78 x 58
57	88 x 68 x 56	120 x 78 x 58
60		130 x 79 x 68
66		150 x 80 x 72

*Alternate EI48 double, 110 x 62 x 55

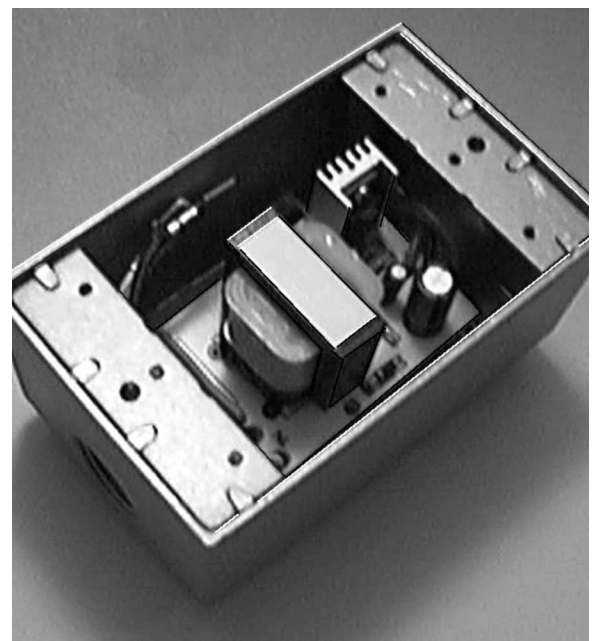
Open Frame Custom Designs

Linear regulated power supplies can be designed for internal use, single or multiple outputs, and with inputs for North American or international applications.

Designs can be based on listed outputs shown or similar output ratings.

Style can be stand-off mounted PC board or configured to fit a specific space and shape.

Custom sheet metal can be incorporated to provide mounting, other input components used, or anything else to make your assembly as efficient as possible.



Note: All dimensions in millimeters. Specifications subject to change.



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Cables, Connectors Custom interconnect capabilities

Years of accumulated experience with power have resulted in ever-enlarging expert support in interface requirements- input and output cables, harnesses, and custom connectors and adapters.

This is a random overview to demonstrate cost efficient capabilities that are available together with APX power supplies, or independently for your needs.

Cabling

Input:

- Safety approved power cordage, all gauges constructions, molded plugs for all countries, molded strain reliefs
- High temperature, UV, oil and chemical resistant, abrasion resistant jackets
- Medical grade. Coiled cables
- And IEC 320 cord sets of every type for every country

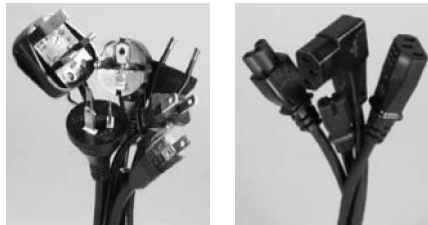
Output:



- Complete harnesses with any specified interfaces
- From parallel or coax cable through to shielded and jacketed multi-conductor constructions
- Coil cords of all constructions
- High temperature, high breakdown voltage
- Ruggedized jackets
- Specific color coding
- CAT 5 types
- Strain relief or other molding
- Super flexible construction
- Medical constructions
- Extension cables

IEC Input cord sets

IEC molded cord sets, plugs for all countries terminated to all IEC320 connector styles, straight and right angle



IEC 320-C13,3 blade grounded

Country of use	Part Number
Brazil	AP3860ZC
South Africa	AP3860SC
Europe, Schuko CEE 7/7	AP3860FC
Europe 2 pin CEE 7/16	AP3860EC
UK 13A fused plug	AP3860BC
Australia	AP3860AC
US Nema 5-15P	AP3860C
Japan 2 blade with ground lug	AP3860JE
China 2 blade	AP3860HC

IEC 320-C8 2 pin

Country of use	Part Number
Australia	AP3890AC
UK	AP3890BC
US	AP3890C
Europlug CEE 7/16	AP3890EC

For 90° right angle plug, change AP3860 to AP3861; AP3890 to AP3891.

For 90° right angle IEC socket, change AP3860 to AP3862; AP3890 to AP3892

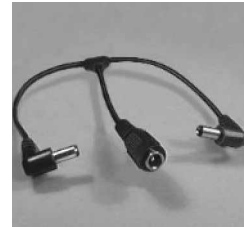
Other options:

90° configuration both plug and IEC connector, cable length other than 6 feet, shielded cable. IEC 320-C5, C19 styles available

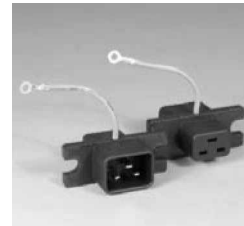
IEC Jumper cables with male pins/blades available in all styles

Dual output "y" cables in all styles - consult sales at APX.

Connector Examples:



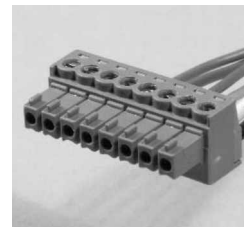
Molded junction cables for split outputs



Panel-mount IEC-320 feed through for blind mating



Between-Series-Adapters, i.e.: Din to mini Din



8 Position Modem



Totally Custom Proprietary, Euro Block

Design Integration

The Relationship between power supply specified output and cable requirements is highly inter-dependent. Outputs at required conditions are measured at the load, hence your output cable/ connector needs will be considered part of the power supply design, to insure it is meeting your objectives. Variables to be accounted for include cable length and its effect on regulation, gauge and current capacity, connector contact ratings, to name a few. These together with mechanical and construction requirements will be integrated to optimize product performance.

DESIGN GUIDE: Output Connectors

This is a representative group of widely used output connectors which are normally overmolded to provide a rugged transition to cabling through a flexible strain relief. Various other connectors featuring locking or positive coupling are available and too numerous to list.


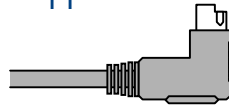
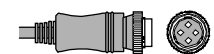


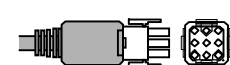
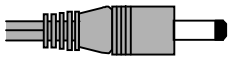
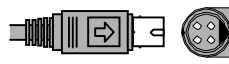
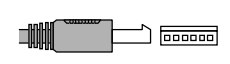
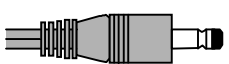

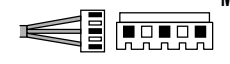

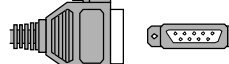
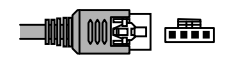
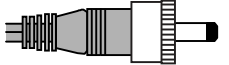
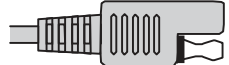
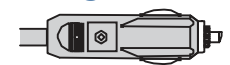

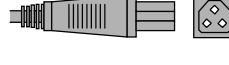

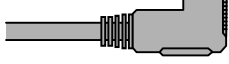
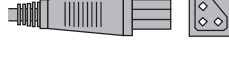





Where appropriate, pinning can be specified to designate center positive or negative, ground to pin or shell, plus and negative voltages, etc.,

or we can advise you of our standard designations.

If you have any proprietary interface, we can provide a mate. Unusual cable requirements can also be accommodated.

Ferrite bead EMI filtering can be provided at the output end of the cable to contain or attenuate emissions if present.

Consult sales for detailed dimensional drawings.

<p>1</p>  <p>Male Pin Available in pin diameters 1.0, 1.3, 2.0, 2.5, and 3.5mm Straight or 90°</p>	<p>11</p>  <p>90° Mini DIN Polarized 2 to 8 contacts</p>	<p>21</p>  <p>Amp Cylindrical Multi Pin threaded or bayonet coupling. Available with various contact layouts</p>
<p>2</p>  <p>Stereo Plug Available in diameters of 2.5, 3.5, 6.3mm Straight or 90°</p>	<p>12</p>  <p>Snap Locking Mini DIN 3 or 8 contacts</p>	<p>22</p>  <p>Amp Mate-N-Lock single, dual, triple row 2-9 contacts</p>
<p>3</p>  <p>Coaxial Female Barrel Diameters of 0.7, 1.0, 1.3, 1.7, 2.1, 2.5, 3.5mm and various barrel lengths 11mm standard</p>	<p>13</p>  <p>Snap Locking Power Mini DIN 4 contacts</p>	<p>23</p>  <p>Molex .156 Pitch Housing Overmolded with locking ramp. Available with 2 to 8 positions also available with .100 pitch</p>
<p>4</p>  <p>Detent Coaxial Female Barrel Detent for positive engagement. All inside diameters</p>	<p>14</p>  <p>Locking Audio XLR Type 3 to 7 contacts</p>	<p>24</p>  <p>Molex .200 Pitch Housing Polarized 2 to 8 contacts Also available with locking ramp. Overmolded or plain</p>
<p>5</p>  <p>Coaxial 90° Female Barrel Detent available. All inside diameters</p>	<p>15</p>  <p>D Sub 9, 15 contacts, shielded available plastic or metal, all jack screw styles</p>	<p>25</p>  <p>Molex .100, .156 Pitch Housing Overmolded with locking latch. Available from 2 to 8 contacts with positive locking or friction fit</p>
<p>6</p>  <p>Coaxial Locking Female Barrel Threaded coupling ring straight or 90°</p>	<p>16</p>  <p>Automotive 2 pin molded</p>	<p>26</p>  <p>Automotive Lighter Fusing available</p>
<p>7</p>  <p>DIN Plug Available with 3 to 8 contacts Male and female Standard or custom pinouts 5 and 8 pin available with alternate contact layouts</p>	<p>17</p>  <p>3 Pin Polarized custom dimensions available</p>	<p>27</p>  <p>Screw Terminals Case 2,3,4 positions</p>
<p>8</p>  <p>90° DIN Male and Female Available with 3 to 8 contacts</p>	<p>18</p>  <p>3 Pin Alternative Layout custom dimensions available</p>	<p>28</p>  <p>Strip and Tin</p>
<p>9</p>  <p>Locking DIN Threaded coupling ring All contact layouts</p>	<p>19</p>  <p>Combi-con Screw Clamp 8 pin modem, or 2 Positions and up</p>	<p>29</p> <p>Any other connector system from any manufacturer, including medical instrumentation types, splash proof types, anti-arcing configurations.</p>
<p>10</p>  <p>Mini DIN 3 to 8 contacts</p>	<p>20</p>  <p>RJ type Modular plug Overmolded. Available 9 or 15 pin with or without screwlocks</p>	<p>And mating jacks for any mounting style, to interface with every connector system.</p>

Note: All dimensions in millimeters. Specifications subject to change.



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