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Output

Current – Standard models from 2A to 1000A.

Voltage – Standard models from 4V to 10V. Other models available upon request.

Input – Various input voltage options are available in the range of 100VAC – 480VAC, 50/60Hz, single or 3-phase, depending on output power rating.

Regulation

Constant Voltage Mode – An output current load change of 100% will cause a voltage variation of less than 0.1%.

Constant Current Mode – An output voltage load change of 100% will cause an output current change variation of less than 0.1%.

Line Effects – Variations in the regulated output will not exceed 0.1% of the output for low line to high line AC input changes.

Ripple – Typically $\leq 100\text{mV}$ (1% - 2%) maximum with a resistive load and the power line within the specified range. Maximum ripple typically occurs at 100% of rated power.

Stability – Maximum deviation in either voltage or current for an eight (8) hour period is 0.05% under conditions of constant line, load and temperature.

Temperature Coefficient – The output current temperature coefficient is 0.03%/°C of the rated output current.

Cooling

All BTA power supplies are forced air cooled and capable of continuous full power operation at ambient temperatures, between 0°C (32°F) and 50°C (122°F). For operation from 50°C to 70°C the derating factor is 1% per °C for all models. Units may be safely stored at temperatures of -55°C to +85°C.

Controls

Local – All BTA models are provided with a U.L. listed circuit breaker or switch and fuse ($\leq 1\text{kW}$) which combines primary circuit protection with on/off control. Output voltage/current adjustment is via 10-turn potentiometers located on the front panel. Simultaneous indication of output current and voltage is provided by standard digital front panel meters.

Remote – All BTA power supplies are also remotely controllable via analog i/o located on the rear of the unit. Various control signal options are available. Digital controls options are available on some models.

Remote Enable/Interlock – All BTA models are capable of being remotely started or stopped by means of an external AC or DC voltage source, or a dry contact closure.

Protective Circuits

Overvoltage – Overvoltage protection, adjustable from the front panel is standard on all BTA models. This circuit will disable the output if it exceeds the preset value. Primary power must be cycled to reset.

Over Temperature Protection – Automatic protection against excessive temperatures is standard on all models.

AC Inrush – Soft start is standard on all BTA models. Line current is less than that at full load during turn-on, turn-off, power interruption or reapplication.

Standard Models

Voltage (V)	Current (A)	Size (kW)	Weight (lbs.)
4	500	2/2.5	35
4	800	5	70
5	300	2/2.5	35
5	750	5	70
6	200	2/2.5	35
6	300	2/2.5	35
7.5	75	0.6/1	20
7.5	130	0.6/1	20
7.5	250	2/2.5	35
7.5	300	2/2.5	35
7.5	600	5	70
10	60	0.6/1	20
10	100	0.6/1	20
10	200	2/2.5	35
10	250	2/2.5	35
10	500	5	70
10	1000	10	105

Consult BTA for other models optimized for your application.

0.6/1 kW, front/back

2/2.5 kW, front/back

5 kW, front/back

10 kW, front/back

